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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
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
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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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```
minibz2
```

```
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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1.5 enum34 1.1.6

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1.6 json-c 0.99.8

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1.7 gmp 6.1.2

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```

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```
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```

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

```
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Version 3, 29 June 2007

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1.8 iptables 1.6.2

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1.9 libpcap 1.9.1

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1.10 libndp 1.7

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1.13 cpp 7.3.0

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1.14 pyasn1-modules 0.0.8

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1.16 json-c 0.14

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1.17 pycparser 2.14

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1.18 berkeley-db 4.7.25

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```

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Ty Coon, President of Vice
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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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```
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```
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

1.26 protobuf-to-dict 0.1.0

1.26.1 Available under license :

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

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', '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
```

1.27 rom 0.42.6

1.27.1 Available under license :

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Version 2.1, February 1999

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```
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```

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

That's all there is to it!

1.28 pylint 1.4.4

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```

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1.29 memory-profiler 0.50.0

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1.30 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

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Classifier: Operating System :: OS Independent

Classifier: Topic :: Scientific/Engineering

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

```
.. image:: https://coveralls.io/repos/mrriehl/fysom/badge.png?branch=master
:target: https://coveralls.io/r/mrriehl/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
```

License

=====

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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.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

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## 1.34 ply 3.9

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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>

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=====

A

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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](mailto:dave@dabeaz.com).

-- Dave

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```
* /opt/cola/permits/1349076481_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/plug/udevtrigger.c
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\* /opt/cola/permits/1349076481\_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/jail/capabilities.h

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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  
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\* /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  
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\*

/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/plug/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  
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/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  
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\* /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/rcS.c
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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
```

# 1.45 expat 2.5.0

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```

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```

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```

## 1.50 ncurses 6.4

### 1.50.1 Available under license :

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

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## 1.54 busybox 1.36.1

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Julian Seward, Cambridge, UK.

[jseward@bzip.org](mailto:jseward@bzip.org)

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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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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```
WEV @@ WEV[B "1
```

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# 1.56 strongswan 5.9.11

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## 1.57 libnsl 2.30

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A. HISTORY OF THE SOFTWARE

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

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

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

All

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

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

2.1.3	2.1.2	2002	PSF	yes
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## 1.59 e2fsprogs 1.47.0

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-----  
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+++ tdbsa/tdb.c

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

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

\*/

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- Unix SMB/CIFS implementation.  
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Upstream-Contact: Theodore Ts'o <tytso@mit.edu>

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

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

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```
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Gnomovision
comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
```

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```
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`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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relink to produce a modified

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

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) $(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)
```

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```
-*- perl -*-
```

```
$testlist = [
 # This specific test fails on OpenBSD because the .pcap file uses DLT_RAW,
 # which OpenBSD treats as DLT_LOOP.
 {
 config_unset => 'IS_OPENBSD',
 name => 'heap-overflow-1',
 input => 'heap-overflow-1.pcap',
 output => 'heap-overflow-1.out',
 args => '-v'
 },
];

1;
```

# 1.61 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		

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Version 3, 29 June 2007

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```
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```

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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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## 1.62 wpa-supPLICant 2.9

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## 1.72 rsyslog 8.2308.0

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## 1.73 iproute 5.7.0-8-openwrt

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Version 2, June 1991

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```
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```

```
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Ty Coon, President of Vice
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# 1.74 sqlite 3.45.1

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```
/*
** 2022-11-18
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
** May you do good and not evil.
** May you find forgiveness for yourself and forgive others.
** May you share freely, never taking more than you give.
**

**
** This is a SQLite extension for converting in either direction
** between a (binary) blob and base64 text. Base64 can transit a
** sane USASCII channel unmolested. It also plays nicely in CSV or
** written as TCL brace-enclosed literals or SQL string literals,
** and can be used unmodified in XML-like documents.
**
** This is an independent implementation of conversions specified in
** RFC 4648, done on the above date by the author (Larry Brasfield)
** who thereby has the right to put this into the public domain.
**
** The conversions meet RFC 4648 requirements,
** provided that this
** C source specifies that line-feeds are included in the encoded
** data to limit visible line lengths to 72 characters and to
** terminate any encoded blob having non-zero length.
**
** Length limitations are not imposed except that the runtime
** SQLite string or blob length limits are respected. Otherwise,
** any length binary sequence can be represented and recovered.
** Generated base64 sequences, with their line-feeds included,
** can be concatenated; the result converted back to binary will
** be the concatenation of the represented binary sequences.
**
** This SQLite3 extension creates a function, base64(x), which
** either: converts text x containing base64 to a returned blob;
** or converts a blob x to returned text containing base64. An
```



```

** error will be thrown for other input argument types.
**
** This code relies on UTF-8 encoding only with respect to the
** meaning of the first 128 (7-bit) codes matching that of USASCII.
** It will fail miserably
if somehow made to try to convert EBCDIC.
** Because it is table-driven, it could be enhanced to handle that,
** but the world and SQLite have moved on from that anachronism.
**
** To build the extension:
** Set shell variable SQDIR=<your favorite SQLite checkout directory>
** *Nix: gcc -O2 -shared -I$SQDIR -fPIC -o base64.so base64.c
** OSX: gcc -O2 -dynamiclib -fPIC -I$SQDIR -o base64.dylib base64.c
** Win32: gcc -O2 -shared -I%SQDIR% -o base64.dll base64.c
** Win32: cl /Os -I%SQDIR% base64.c -link -dll -out:base64.dll
*/
/*
** 2022-11-16
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
** May you do good and not evil.
** May you find forgiveness for yourself and forgive others.
** May you share freely, never taking more than you give.
**

**
** This is a utility for converting binary to base85 or vice-versa.
** It can be built as a standalone
program or an SQLite3 extension.
**
** Much like base64 representations, base85 can be sent through a
** sane USASCII channel unmolested. It also plays nicely in CSV or
** written as TCL brace-enclosed literals or SQL string literals.
** It is not suited for unmodified use in XML-like documents.
**
** The encoding used resembles Ascii85, but was devised by the author
** (Larry Brasfield) before Mozilla, Adobe, ZMODEM or other Ascii85
** variant sources existed, in the 1984 timeframe on a VAX mainframe.
** Further, this is an independent implementation of a base85 system.
** Hence, the author has rightfully put this into the public domain.
**
** Base85 numerals are taken from the set of 7-bit USASCII codes,
** excluding control characters and Space ! " ' () { | } ~ Del
** in code order representing digit values 0 to 84 (base 10.)
**
** Groups of 4 bytes, interpreted as big-endian 32-bit values,

```

```

** are represented as 5-digit base85 numbers with MS to LS digit
** order. Groups
of 1-3 bytes are represented with 2-4 digits,
** still big-endian but 8-24 bit values. (Using big-endian yields
** the simplest transition to byte groups smaller than 4 bytes.
** These byte groups can also be considered base-256 numbers.)
** Groups of 0 bytes are represented with 0 digits and vice-versa.
** No pad characters are used; Encoded base85 numeral sequence
** (aka "group") length maps 1-to-1 to the decoded binary length.
**
** Any character not in the base85 numeral set delimits groups.
** When base85 is streamed or stored in containers of indefinite
** size, newline is used to separate it into sub-sequences of no
** more than 80 digits so that fgets() can be used to read it.
**
** Length limitations are not imposed except that the runtime
** SQLite string or blob length limits are respected. Otherwise,
** any length binary sequence can be represented and recovered.
** Base85 sequences can be concatenated by separating them with
** a non-base85 character; the conversion to binary
will then
** be the concatenation of the represented binary sequences.

** The standalone program either converts base85 on stdin to create
** a binary file or converts a binary file to base85 on stdout.
** Read or make it blurt its help for invocation details.
**
** The SQLite3 extension creates a function, base85(x), which will
** either convert text base85 to a blob or a blob to text base85
** and return the result (or throw an error for other types.)
** Unless built with OMIT_BASE85_CHECKER defined, it also creates a
** function, is_base85(t), which returns 1 iff the text t contains
** nothing other than base85 numerals and whitespace, or 0 otherwise.
**
** To build the extension:
** Set shell variable SQDIR=<your favorite SQLite checkout directory>
** and variable OPTS to -DOMIT_BASE85_CHECKER if is_base85() unwanted.
** *Nix: gcc -O2 -shared -ISSQDIR $OPTS -fPIC -o base85.so base85.c
** *OSX: gcc -O2 -dynamiclib -fPIC -ISSQDIR $OPTS -o base85.dylib base85.c
** *Win32: gcc -O2
-shared -I%SQDIR% %OPTS% -o base85.dll base85.c
** *Win32: cl /Os -I%SQDIR% %OPTS% base85.c -link -dll -out:base85.dll
**
** To build the standalone program, define PP symbol BASE85_STANDALONE. Eg.
** *Nix or OSX: gcc -O2 -DBASE85_STANDALONE base85.c -o base85
** *Win32: gcc -O2 -DBASE85_STANDALONE -o base85.exe base85.c
** *Win32: cl /Os /MD -DBASE85_STANDALONE base85.c
*/

```

/\* This will be more informative in a later version. \*/

Found in path(s):

\* /opt/cola/permits/1899226984\_1709786417.4208791/0/sqlite-amalgamation-3450100-zip/sqlite-amalgamation-3450100/shell.c

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/\*

\*\* CAPI3REF: Configuration Options

\*\* KEYWORDS: {configuration option}

\*\*

\*\* These constants are the available integer configuration options that  
\*\* can be passed as the first argument to the [sqlite3\_config()] interface.

\*\*

\*\* Most of the configuration options for sqlite3\_config()  
\*\* will only work if invoked prior to [sqlite3\_initialize()] or after  
\*\* [sqlite3\_shutdown()]. The few exceptions to this rule are called  
\*\* "anytime configuration options".  
\*\* ^Calling [sqlite3\_config()] with a first argument that is not an  
\*\* anytime configuration option in between calls to [sqlite3\_initialize()] and  
\*\* [sqlite3\_shutdown()] is a no-op that returns SQLITE\_MISUSE.

\*\*

\*\* The set of anytime configuration options can change (by insertions  
\*\* and/or deletions) from one release of SQLite to the next.  
\*\* As of SQLite version 3.42.0, the complete set of anytime configuration  
\*\* options is:

\*\* <ul>

\*\* <li> SQLITE\_CONFIG\_LOG

\*\*

<li> SQLITE\_CONFIG\_PCACHE\_HDRSZ

\*\* </ul>

\*\*

\*\* New configuration options may be added in future releases of SQLite.  
\*\* Existing configuration options might be discontinued. Applications  
\*\* should check the return code from [sqlite3\_config()] to make sure that  
\*\* the call worked. The [sqlite3\_config()] interface will return a  
\*\* non-zero [error code] if a discontinued or unsupported configuration option  
\*\* is invoked.

\*\*

\*\* <dl>

\*\* [[SQLITE\_CONFIG\_SINGLETHREAD]] <dt>SQLITE\_CONFIG\_SINGLETHREAD</dt>

\*\* <dd>There are no arguments to this option. ^This option sets the  
\*\* [threading mode] to Single-thread. In other words, it disables  
\*\* all mutexing and puts SQLite into a mode where it can only be used  
\*\* by a single thread. ^If SQLite is compiled with  
\*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
\*\* it is not possible to change the [threading mode] from its default  
\*\* value of Single-thread and so [sqlite3\_config()] will return

\*\* [SQLITE\_ERROR] if called  
 with the SQLITE\_CONFIG\_SINGLETHREAD  
 configuration option.</dd>

\*\*

\*\* [[SQLITE\_CONFIG\_MULTITHREAD]] <dt>SQLITE\_CONFIG\_MULTITHREAD</dt>  
 \*\* <dd>There are no arguments to this option. ^This option sets the  
 \*\* [threading mode] to Multi-thread. In other words, it disables  
 \*\* mutexing on [database connection] and [prepared statement] objects.  
 \*\* The application is responsible for serializing access to  
 \*\* [database connections] and [prepared statements]. But other mutexes  
 \*\* are enabled so that SQLite will be safe to use in a multi-threaded  
 \*\* environment as long as no two threads attempt to use the same  
 \*\* [database connection] at the same time. ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* it is not possible to set the Multi-thread [threading mode] and  
 \*\* [sqlite3\_config()] will return [SQLITE\_ERROR] if called with the  
 \*\* SQLITE\_CONFIG\_MULTITHREAD configuration option.</dd>

\*\*

\*\* [[SQLITE\_CONFIG\_SERIALIZED]] <dt>SQLITE\_CONFIG\_SERIALIZED</dt>  
 \*\*

<dd>There are no arguments to this option. ^This option sets the  
 \*\* [threading mode] to Serialized. In other words, this option enables  
 \*\* all mutexes including the recursive  
 \*\* mutexes on [database connection] and [prepared statement] objects.  
 \*\* In this mode (which is the default when SQLite is compiled with  
 \*\* [SQLITE\_THREADSAFE=1]) the SQLite library will itself serialize access  
 \*\* to [database connections] and [prepared statements] so that the  
 \*\* application is free to use the same [database connection] or the  
 \*\* same [prepared statement] in different threads at the same time.  
 \*\* ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* it is not possible to set the Serialized [threading mode] and  
 \*\* [sqlite3\_config()] will return [SQLITE\_ERROR] if called with the  
 \*\* SQLITE\_CONFIG\_SERIALIZED configuration option.</dd>

\*\*

\*\* [[SQLITE\_CONFIG\_MALLOC]] <dt>SQLITE\_CONFIG\_MALLOC</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_MALLOC option  
 takes a single argument which is  
 \*\* a pointer to an instance of the [sqlite3\_mem\_methods] structure.  
 \*\* The argument specifies  
 \*\* alternative low-level memory allocation routines to be used in place of  
 \*\* the memory allocation routines built into SQLite.)^ ^SQLite makes  
 \*\* its own private copy of the content of the [sqlite3\_mem\_methods] structure  
 \*\* before the [sqlite3\_config()] call returns.</dd>

\*\*

\*\* [[SQLITE\_CONFIG\_GETMALLOC]] <dt>SQLITE\_CONFIG\_GETMALLOC</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_GETMALLOC option takes a single argument which  
 \*\* is a pointer to an instance of the [sqlite3\_mem\_methods] structure.

\*\* The [sqlite3\_mem\_methods] structure is filled with the currently defined memory allocation routines.)^  
 \*\* This option can be used to overload the default memory allocation routines with a wrapper that simulations memory allocation failure or tracks memory usage, for example. </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_SMALL\_MALLOC]] <dt>SQLITE\_CONFIG\_SMALL\_MALLOC</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_SMALL\_MALLOC option takes single argument of type int, interpreted as a boolean, which if true provides a hint to SQLite that it should avoid large memory allocations if possible. SQLite will run faster if it is free to make large memory allocations, but some application might prefer to run slower in exchange for guarantees about memory fragmentation that are possible if large allocations are avoided. This hint is normally off.  
 \*\* </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MEMSTATUS]] <dt>SQLITE\_CONFIG\_MEMSTATUS</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_MEMSTATUS option takes single argument of type int, interpreted as a boolean, which enables or disables the collection of memory allocation statistics. ^(When memory allocation statistics are disabled, the following SQLite interfaces become non-operational:  
 \*\* <ul>  
 \*\* <li> [sqlite3\_hard\_heap\_limit64()]  
 \*\* <li> [sqlite3\_memory\_used()]  
 \*\* <li> [sqlite3\_memory\_highwater()]  
 \*\* <li> [sqlite3\_soft\_heap\_limit64()]  
 \*\*  
 \*\* <li> [sqlite3\_status64()]  
 \*\* </ul>)^  
 \*\* ^Memory allocation statistics are enabled by default unless SQLite is compiled with [SQLITE\_DEFAULT\_MEMSTATUS]=0 in which case memory allocation statistics are disabled by default.  
 \*\* </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_SCRATCH]] <dt>SQLITE\_CONFIG\_SCRATCH</dt>  
 \*\* <dd> The SQLITE\_CONFIG\_SCRATCH option is no longer used.  
 \*\* </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_PAGECACHE]] <dt>SQLITE\_CONFIG\_PAGECACHE</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_PAGECACHE option specifies a memory pool that SQLite can use for the database page cache with the default page cache implementation.  
 \*\* This configuration option is a no-op if an application-defined page cache implementation is loaded using the [SQLITE\_CONFIG\_PCACHE2].  
 \*\* ^There are three arguments to SQLITE\_CONFIG\_PAGECACHE: A pointer to 8-byte aligned memory (pMem), the size of each page cache line (sz), and the number of cache lines (N).

\*\* The sz argument should be the size of the largest database page  
 \*\* (a power  
 of two between 512 and 65536) plus some extra bytes for each  
 \*\* page header. ^The number of extra bytes needed by the page header  
 \*\* can be determined using [SQLITE\_CONFIG\_PCACHE\_HDRSZ].  
 \*\* ^It is harmless, apart from the wasted memory,  
 \*\* for the sz parameter to be larger than necessary. The pMem  
 \*\* argument must be either a NULL pointer or a pointer to an 8-byte  
 \*\* aligned block of memory of at least sz\*N bytes, otherwise  
 \*\* subsequent behavior is undefined.  
 \*\* ^When pMem is not NULL, SQLite will strive to use the memory provided  
 \*\* to satisfy page cache needs, falling back to [sqlite3\_malloc()] if  
 \*\* a page cache line is larger than sz bytes or if all of the pMem buffer  
 \*\* is exhausted.  
 \*\* ^If pMem is NULL and N is non-zero, then each database connection  
 \*\* does an initial bulk allocation for page cache memory  
 \*\* from [sqlite3\_malloc()] sufficient for N cache lines if N is positive or  
 \*\* of -1024\*N bytes if N is negative, . ^If additional  
 \*\* page cache memory is needed beyond  
 what is provided by the initial  
 \*\* allocation, then SQLite goes to [sqlite3\_malloc()] separately for each  
 \*\* additional cache line. </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_HEAP]] <dt>SQLITE\_CONFIG\_HEAP</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_HEAP option specifies a static memory buffer  
 \*\* that SQLite will use for all of its dynamic memory allocation needs  
 \*\* beyond those provided for by [SQLITE\_CONFIG\_PAGECACHE].  
 \*\* ^The SQLITE\_CONFIG\_HEAP option is only available if SQLite is compiled  
 \*\* with either [SQLITE\_ENABLE\_MEMSYS3] or [SQLITE\_ENABLE\_MEMSYS5] and returns  
 \*\* [SQLITE\_ERROR] if invoked otherwise.  
 \*\* ^There are three arguments to SQLITE\_CONFIG\_HEAP:  
 \*\* An 8-byte aligned pointer to the memory,  
 \*\* the number of bytes in the memory buffer, and the minimum allocation size.  
 \*\* ^If the first pointer (the memory pointer) is NULL, then SQLite reverts  
 \*\* to using its default memory allocator (the system malloc() implementation),  
 \*\* undoing any prior invocation of [SQLITE\_CONFIG\_MALLOC]. ^If the  
 \*\* memory pointer  
 is not NULL then the alternative memory  
 \*\* allocator is engaged to handle all of SQLites memory allocation needs.  
 \*\* The first pointer (the memory pointer) must be aligned to an 8-byte  
 \*\* boundary or subsequent behavior of SQLite will be undefined.  
 \*\* The minimum allocation size is capped at 2\*\*12. Reasonable values  
 \*\* for the minimum allocation size are 2\*\*5 through 2\*\*8.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MUTEX]] <dt>SQLITE\_CONFIG\_MUTEX</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_MUTEX option takes a single argument which is a  
 \*\* pointer to an instance of the [sqlite3\_mutex\_methods] structure.  
 \*\* The argument specifies alternative low-level mutex routines to be used

\*\* in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of  
 \*\* the content of the [sqlite3\_mutex\_methods] structure before the call to  
 \*\* [sqlite3\_config()] returns. ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* the entire mutexing subsystem is omitted from the  
 build and hence calls to  
 \*\* [sqlite3\_config()] with the SQLITE\_CONFIG\_MUTEX configuration option will  
 \*\* return [SQLITE\_ERROR].</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_GETMUTEX]] <dt>SQLITE\_CONFIG\_GETMUTEX</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_GETMUTEX option takes a single argument which  
 \*\* is a pointer to an instance of the [sqlite3\_mutex\_methods] structure. The  
 \*\* [sqlite3\_mutex\_methods]  
 \*\* structure is filled with the currently defined mutex routines.)^  
 \*\* This option can be used to overload the default mutex allocation  
 \*\* routines with a wrapper used to track mutex usage for performance  
 \*\* profiling or testing, for example. ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* the entire mutexing subsystem is omitted from the build and hence calls to  
 \*\* [sqlite3\_config()] with the SQLITE\_CONFIG\_GETMUTEX configuration option will  
 \*\* return [SQLITE\_ERROR].</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_LOOKASIDE]] <dt>SQLITE\_CONFIG\_LOOKASIDE</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_LOOKASIDE  
 option takes two arguments that determine  
 \*\* the default size of lookaside memory on each [database connection].  
 \*\* The first argument is the  
 \*\* size of each lookaside buffer slot and the second is the number of  
 \*\* slots allocated to each database connection.)^ ^SQLITE\_CONFIG\_LOOKASIDE  
 \*\* sets the <i>default</i> lookaside size. The [SQLITE\_DBCONFIG\_LOOKASIDE]  
 \*\* option to [sqlite3\_db\_config()] can be used to change the lookaside  
 \*\* configuration on individual connections.)^ </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_PCACHE2]] <dt>SQLITE\_CONFIG\_PCACHE2</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_PCACHE2 option takes a single argument which is  
 \*\* a pointer to an [sqlite3\_pcache\_methods2] object. This object specifies  
 \*\* the interface to a custom page cache implementation.)^  
 \*\* ^SQLite makes a copy of the [sqlite3\_pcache\_methods2] object.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_GETPCACHE2]] <dt>SQLITE\_CONFIG\_GETPCACHE2</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_GETPCACHE2 option takes a single argument which  
 \*\* is  
 a pointer to an [sqlite3\_pcache\_methods2] object. SQLite copies of  
 \*\* the current page cache implementation into that object.)^ </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_LOG]] <dt>SQLITE\_CONFIG\_LOG</dt>  
 \*\* <dd> The SQLITE\_CONFIG\_LOG option is used to configure the SQLite  
 \*\* global [error log].

\*\* (^The `SQLITE_CONFIG_LOG` option takes two arguments: a pointer to a  
 \*\* function with a call signature of `void (*)(void*,int,const char*)`,  
 \*\* and a pointer to void. ^If the function pointer is not `NULL`, it is  
 \*\* invoked by `[sqlite3_log()]` to process each logging event. ^If the  
 \*\* function pointer is `NULL`, the `[sqlite3_log()]` interface becomes a no-op.  
 \*\* ^The void pointer that is the second argument to `SQLITE_CONFIG_LOG` is  
 \*\* passed through as the first parameter to the application-defined logger  
 \*\* function whenever that function is invoked. ^The second parameter to  
 \*\* the logger function is a copy of the first parameter to the corresponding  
 \*\* `[sqlite3_log()]` call and is intended to be a [result code] or  
 an  
 \*\* [extended result code]. ^The third parameter passed to the logger is  
 \*\* log message after formatting via `[sqlite3_snprintf()]`.  
 \*\* The SQLite logging interface is not reentrant; the logger function  
 \*\* supplied by the application must not invoke any SQLite interface.  
 \*\* In a multi-threaded application, the application-defined logger  
 \*\* function must be threadsafe. </dd>  
 \*\*  
 \*\* `[[SQLITE_CONFIG_URI]]` <dt>`SQLITE_CONFIG_URI`  
 \*\* <dd>^(The `SQLITE_CONFIG_URI` option takes a single argument of type `int`.  
 \*\* If non-zero, then URI handling is globally enabled. If the parameter is zero,  
 \*\* then URI handling is globally disabled.)^ ^If URI handling is globally  
 \*\* enabled, all filenames passed to `[sqlite3_open()]`, `[sqlite3_open_v2()]`,  
 \*\* `[sqlite3_open16()]` or  
 \*\* specified as part of `[ATTACH]` commands are interpreted as URIs, regardless  
 \*\* of whether or not the `[SQLITE_OPEN_URI]` flag is set when the database  
 \*\* connection is opened. ^If it is globally disabled, filenames are  
 \*\* only interpreted as  
 URIs if the `SQLITE_OPEN_URI` flag is set when the  
 \*\* database connection is opened. ^By default, URI handling is globally  
 \*\* disabled. The default value may be changed by compiling with the  
 \*\* `[SQLITE_USE_URI]` symbol defined.)^  
 \*\*  
 \*\* `[[SQLITE_CONFIG_COVERING_INDEX_SCAN]]` <dt>`SQLITE_CONFIG_COVERING_INDEX_SCAN`  
 \*\* <dd>^The `SQLITE_CONFIG_COVERING_INDEX_SCAN` option takes a single integer  
 \*\* argument which is interpreted as a boolean in order to enable or disable  
 \*\* the use of covering indices for full table scans in the query optimizer.  
 \*\* ^The default setting is determined  
 \*\* by the `[SQLITE_ALLOW_COVERING_INDEX_SCAN]` compile-time option, or is "on"  
 \*\* if that compile-time option is omitted.  
 \*\* The ability to disable the use of covering indices for full table scans  
 \*\* is because some incorrectly coded legacy applications might malfunction  
 \*\* when the optimization is enabled. Providing the ability to  
 \*\* disable the optimization allows the older, buggy application code to work  
 \*\* without change  
 even with newer versions of SQLite.  
 \*\*  
 \*\* `[[SQLITE_CONFIG_PCACHE]]` `[[SQLITE_CONFIG_GETPCACHE]]`



```

** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void*(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1,
 then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL in this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE]
 compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which

```

\*\* is a pointer to an integer and writes into that integer the number of extra  
 \*\* bytes per page required for each page in [SQLITE\_CONFIG\_PAGECACHE].  
 \*\* The amount of extra space required can change depending on the compiler,  
 \*\* target platform, and SQLite version.  
 \*\*

\*\* [[SQLITE\_CONFIG\_PMASZ]]  
 \*\* <dt>SQLITE\_CONFIG\_PMASZ  
 \*\* <dd>^The  
 SQLite\_CONFIG\_PMASZ option takes a single parameter which  
 \*\* is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded  
 \*\* sorter to that integer. The default minimum PMA Size is set by the  
 \*\* [SQLITE\_SORTER\_PMASZ] compile-time option. New threads are launched  
 \*\* to help with sort operations when multithreaded sorting  
 \*\* is enabled (using the [PRAGMA threads] command) and the amount of content  
 \*\* to be sorted exceeds the page size times the minimum of the  
 \*\* [PRAGMA cache\_size] setting and this value.  
 \*\*

\*\* [[SQLITE\_CONFIG\_STMTJRNL\_SPILL]]  
 \*\* <dt>SQLITE\_CONFIG\_STMTJRNL\_SPILL  
 \*\* <dd>^The SQLITE\_CONFIG\_STMTJRNL\_SPILL option takes a single parameter which  
 \*\* becomes the [statement journal] spill-to-disk threshold.  
 \*\* [Statement journals] are held in memory until their size (in bytes)  
 \*\* exceeds this threshold, at which point they are written to disk.  
 \*\* Or if the threshold is -1, statement journals are always held  
 \*\* exclusively in memory.  
 \*\* Since many statement journals  
 never become large, setting the spill  
 \*\* threshold to a value such as 64KiB can greatly reduce the amount of  
 \*\* I/O required to support statement rollback.  
 \*\* The default value for this setting is controlled by the  
 \*\* [SQLITE\_STMTJRNL\_SPILL] compile-time option.  
 \*\*

\*\* [[SQLITE\_CONFIG\_SORTERREF\_SIZE]]  
 \*\* <dt>SQLITE\_CONFIG\_SORTERREF\_SIZE  
 \*\* <dd>The SQLITE\_CONFIG\_SORTERREF\_SIZE option accepts a single parameter  
 \*\* of type (int) - the new value of the sorter-reference size threshold.  
 \*\* Usually, when SQLite uses an external sort to order records according  
 \*\* to an ORDER BY clause, all fields required by the caller are present in the  
 \*\* sorted records. However, if SQLite determines based on the declared type  
 \*\* of a table column that its values are likely to be very large - larger  
 \*\* than the configured sorter-reference size threshold - then a reference  
 \*\* is stored in each sorted record and the required column values loaded  
 \*\* from the database as records are returned in sorted order.  
 The default  
 \*\* value for this option is to never use this optimization. Specifying a  
 \*\* negative value for this option restores the default behavior.  
 \*\* This option is only available if SQLite is compiled with the  
 \*\* [SQLITE\_ENABLE\_SORTER\_REFERENCES] compile-time option.

```

**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dd>
** /
/*
** The "printf" code that follows dates
from the 1980's. It is in
** the public domain.
**

**
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
** /
/*
** 2004 May 22
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
** May you do good and not evil.
** May you find forgiveness for yourself and forgive others.
** May you share freely, never taking more than you give.
**

**
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file
locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various

```

```

** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labelled.
**
** The layout of divisions is as follows:
**
** * General-purpose declarations and utility functions.
** * Unique file ID logic used by VxWorks.
** * Various locking primitive implementations (all except proxy locking):
** + for Posix Advisory Locks
** + for no-op locks
** + for dot-file locks
** + for flock() locking
** + for named semaphore locks (VxWorks only)
** + for AFP filesystem locks (MacOSX only)
** * sqlite3_file methods not associated with locking.
**
** * Definitions of sqlite3_io_methods objects for all locking
** methods plus "finder" functions for each locking method.
** * sqlite3_vfs method implementations.
** * Locking primitives for the proxy uber-locking-method. (MacOSX only)
** * Definitions of sqlite3_vfs objects for all locking methods
** plus implementations of sqlite3_os_init() and sqlite3_os_end().
**/
/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
**/

```

Found in path(s):

```

* /opt/cola/permits/1899226984_1709786417.4208791/0/sqlite-amalgamation-3450100-zip/sqlite-amalgamation-3450100/sqlite3.c

```

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

```

/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** Most of the configuration options for sqlite3_config()
** will only work if invoked prior to [sqlite3_initialize()] or after
** [sqlite3_shutdown()]. The few exceptions to this rule are called

```

\*\* "anytime configuration options".

\*\* ^Calling [sqlite3\_config()] with a first argument that is not an  
 anytime configuration option in between calls to [sqlite3\_initialize()] and  
 [sqlite3\_shutdown()] is a no-op that returns SQLITE\_MISUSE.

\*\*

\*\* The set of anytime configuration options can change (by insertions  
 and/or deletions) from one release of SQLite to the next.

\*\* As of SQLite version 3.42.0, the complete set of anytime configuration  
 options is:

\*\* <ul>

\*\* <li>SQLITE\_CONFIG\_LOG

\*\*

\*\* <li>SQLITE\_CONFIG\_PCACHE\_HDRSZ

\*\* </ul>

\*\*

\*\* New configuration options may be added in future releases of SQLite.

\*\* Existing configuration options might be discontinued. Applications  
 should check the return code from [sqlite3\_config()] to make sure that  
 the call worked. The [sqlite3\_config()] interface will return a  
 non-zero [error code] if a discontinued or unsupported configuration option  
 is invoked.

\*\*

\*\* <dl>

\*\* [[SQLITE\_CONFIG\_SINGLETHREAD]] <dt>SQLITE\_CONFIG\_SINGLETHREAD</dt>

\*\* <dd>There are no arguments to this option. ^This option sets the  
 [threading mode] to Single-thread. In other words, it disables  
 all mutexing and puts SQLite into a mode where it can only be used  
 by a single thread. ^If SQLite is compiled with  
 the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 it is not possible to change the [threading mode] from its default  
 value of Single-thread and so [sqlite3\_config()] will return  
 [SQLITE\_ERROR] if called  
 with the SQLITE\_CONFIG\_SINGLETHREAD  
 configuration option.</dd>

\*\*

\*\* [[SQLITE\_CONFIG\_MULTITHREAD]] <dt>SQLITE\_CONFIG\_MULTITHREAD</dt>

\*\* <dd>There are no arguments to this option. ^This option sets the  
 [threading mode] to Multi-thread. In other words, it disables  
 mutexing on [database connection] and [prepared statement] objects.  
 The application is responsible for serializing access to  
 [database connections] and [prepared statements]. But other mutexes  
 are enabled so that SQLite will be safe to use in a multi-threaded  
 environment as long as no two threads attempt to use the same  
 [database connection] at the same time. ^If SQLite is compiled with  
 the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 it is not possible to set the Multi-thread [threading mode] and  
 [sqlite3\_config()] will return [SQLITE\_ERROR] if called with the  
 SQLITE\_CONFIG\_MULTITHREAD configuration option.</dd>

```

**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
**
<dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_MALLOC option
takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC
option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided. This hint is normally off.
** </dd>
**

```

**SQLITE\_CONFIG\_MEMSTATUS** <dt>SQLITE\_CONFIG\_MEMSTATUS</dt>  
 ^The SQLITE\_CONFIG\_MEMSTATUS option takes single argument of type int, interpreted as a boolean, which enables or disables the collection of memory allocation statistics. ^When memory allocation statistics are disabled, the following SQLite interfaces become non-operational:

- [sqlite3\_hard\_heap\_limit64()]
- [sqlite3\_memory\_used()]
- [sqlite3\_memory\_highwater()]
- [sqlite3\_soft\_heap\_limit64()]
- [sqlite3\_status64()]

^Memory allocation statistics are enabled by default unless SQLite is compiled with [SQLITE\_DEFAULT\_MEMSTATUS]=0 in which case memory allocation statistics are disabled by default.

**SQLITE\_CONFIG\_SCRATCH** <dt>SQLITE\_CONFIG\_SCRATCH</dt>  
 The SQLITE\_CONFIG\_SCRATCH option is no longer used.

**SQLITE\_CONFIG\_PAGECACHE** <dt>SQLITE\_CONFIG\_PAGECACHE</dt>  
 ^The SQLITE\_CONFIG\_PAGECACHE option specifies a memory pool that SQLite can use for the database page cache with the default page cache implementation. This configuration option is a no-op if an application-defined page cache implementation is loaded using the [SQLITE\_CONFIG\_PCACHE2]. ^There are three arguments to SQLITE\_CONFIG\_PAGECACHE: A pointer to 8-byte aligned memory (pMem), the size of each page cache line (sz), and the number of cache lines (N). The sz argument should be the size of the largest database page (a power of two between 512 and 65536) plus some extra bytes for each page header. ^The number of extra bytes needed by the page header can be determined using [SQLITE\_CONFIG\_PCACHE\_HDRSZ]. ^It is harmless, apart from the wasted memory, for the sz parameter to be larger than necessary. The pMem argument must be either a NULL pointer or a pointer to an 8-byte aligned block of memory of at least sz\*N bytes, otherwise subsequent behavior is undefined. ^When pMem is not NULL, SQLite will strive to use the memory provided to satisfy page cache needs, falling back to [sqlite3\_malloc()] if a page cache line is larger than sz bytes or if all of the pMem buffer is exhausted. ^If pMem is NULL and N is non-zero, then each database connection does an initial bulk allocation for page cache memory from [sqlite3\_malloc()] sufficient for N cache lines if N is positive or

\*\* of  $-1024 \cdot N$  bytes if  $N$  is negative. . ^If additional  
 \*\* page cache memory is needed beyond  
 what is provided by the initial  
 \*\* allocation, then SQLite goes to [sqlite3\_malloc()] separately for each  
 \*\* additional cache line. </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_HEAP]] <dt>SQLITE\_CONFIG\_HEAP</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_HEAP option specifies a static memory buffer  
 \*\* that SQLite will use for all of its dynamic memory allocation needs  
 \*\* beyond those provided for by [SQLITE\_CONFIG\_PAGECACHE].  
 \*\* ^The SQLITE\_CONFIG\_HEAP option is only available if SQLite is compiled  
 \*\* with either [SQLITE\_ENABLE\_MEMSYS3] or [SQLITE\_ENABLE\_MEMSYS5] and returns  
 \*\* [SQLITE\_ERROR] if invoked otherwise.  
 \*\* ^There are three arguments to SQLITE\_CONFIG\_HEAP:  
 \*\* An 8-byte aligned pointer to the memory,  
 \*\* the number of bytes in the memory buffer, and the minimum allocation size.  
 \*\* ^If the first pointer (the memory pointer) is NULL, then SQLite reverts  
 \*\* to using its default memory allocator (the system malloc() implementation),  
 \*\* undoing any prior invocation of [SQLITE\_CONFIG\_MALLOC]. ^If the  
 \*\* memory pointer  
 is not NULL then the alternative memory  
 \*\* allocator is engaged to handle all of SQLites memory allocation needs.  
 \*\* The first pointer (the memory pointer) must be aligned to an 8-byte  
 \*\* boundary or subsequent behavior of SQLite will be undefined.  
 \*\* The minimum allocation size is capped at  $2^{12}$ . Reasonable values  
 \*\* for the minimum allocation size are  $2^5$  through  $2^8$ .</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MUTEX]] <dt>SQLITE\_CONFIG\_MUTEX</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_MUTEX option takes a single argument which is a  
 \*\* pointer to an instance of the [sqlite3\_mutex\_methods] structure.  
 \*\* The argument specifies alternative low-level mutex routines to be used  
 \*\* in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of  
 \*\* the content of the [sqlite3\_mutex\_methods] structure before the call to  
 \*\* [sqlite3\_config()] returns. ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* the entire mutexing subsystem is omitted from the  
 build and hence calls to  
 \*\* [sqlite3\_config()] with the SQLITE\_CONFIG\_MUTEX configuration option will  
 \*\* return [SQLITE\_ERROR].</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_GETMUTEX]] <dt>SQLITE\_CONFIG\_GETMUTEX</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_GETMUTEX option takes a single argument which  
 \*\* is a pointer to an instance of the [sqlite3\_mutex\_methods] structure. The  
 \*\* [sqlite3\_mutex\_methods]  
 \*\* structure is filled with the currently defined mutex routines.)^  
 \*\* This option can be used to overload the default mutex allocation  
 \*\* routines with a wrapper used to track mutex usage for performance  
 \*\* profiling or testing, for example. ^If SQLite is compiled with



\*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* the entire mutexing subsystem is omitted from the build and hence calls to  
 \*\* [sqlite3\_config()] with the SQLITE\_CONFIG\_GETMUTEX configuration option will  
 \*\* return [SQLITE\_ERROR].</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_LOOKASIDE]] <dt>SQLITE\_CONFIG\_LOOKASIDE</dt>  
 \*\* <dd> ^(The SQLITE\_CONFIG\_LOOKASIDE  
 option takes two arguments that determine  
 \*\* the default size of lookaside memory on each [database connection].  
 \*\* The first argument is the  
 \*\* size of each lookaside buffer slot and the second is the number of  
 \*\* slots allocated to each database connection.)^ (SQLITE\_CONFIG\_LOOKASIDE  
 \*\* sets the <i>default</i> lookaside size. The [SQLITE\_DBCONFIG\_LOOKASIDE]  
 \*\* option to [sqlite3\_db\_config()] can be used to change the lookaside  
 \*\* configuration on individual connections.)^ </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_PCACHE2]] <dt>SQLITE\_CONFIG\_PCACHE2</dt>  
 \*\* <dd> ^(The SQLITE\_CONFIG\_PCACHE2 option takes a single argument which is  
 \*\* a pointer to an [sqlite3\_pcache\_methods2] object. This object specifies  
 \*\* the interface to a custom page cache implementation.)^  
 \*\* ^SQLite makes a copy of the [sqlite3\_pcache\_methods2] object.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_GETPCACHE2]] <dt>SQLITE\_CONFIG\_GETPCACHE2</dt>  
 \*\* <dd> ^(The SQLITE\_CONFIG\_GETPCACHE2 option takes a single argument which  
 \*\* is  
 a pointer to an [sqlite3\_pcache\_methods2] object. SQLite copies of  
 \*\* the current page cache implementation into that object.)^ </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_LOG]] <dt>SQLITE\_CONFIG\_LOG</dt>  
 \*\* <dd> The SQLITE\_CONFIG\_LOG option is used to configure the SQLite  
 \*\* global [error log].  
 \*\* (^The SQLITE\_CONFIG\_LOG option takes two arguments: a pointer to a  
 \*\* function with a call signature of void(\*)(void\*,int,const char\*),  
 \*\* and a pointer to void. ^If the function pointer is not NULL, it is  
 \*\* invoked by [sqlite3\_log()] to process each logging event. ^If the  
 \*\* function pointer is NULL, the [sqlite3\_log()] interface becomes a no-op.  
 \*\* ^The void pointer that is the second argument to SQLITE\_CONFIG\_LOG is  
 \*\* passed through as the first parameter to the application-defined logger  
 \*\* function whenever that function is invoked. ^The second parameter to  
 \*\* the logger function is a copy of the first parameter to the corresponding  
 \*\* [sqlite3\_log()] call and is intended to be a [result code] or  
 an  
 \*\* [extended result code]. ^The third parameter passed to the logger is  
 \*\* log message after formatting via [sqlite3\_snprintf()].  
 \*\* The SQLite logging interface is not reentrant; the logger function  
 \*\* supplied by the application must not invoke any SQLite interface.  
 \*\* In a multi-threaded application, the application-defined logger  
 \*\* function must be threadsafe. </dd>

\*\*

\*\* `[[SQLITE_CONFIG_URI]]` <dt>`SQLITE_CONFIG_URI`

\*\* <dd>^(The `SQLITE_CONFIG_URI` option takes a single argument of type `int`.

\*\* If non-zero, then URI handling is globally enabled. If the parameter is zero,

\*\* then URI handling is globally disabled.)^ ^If URI handling is globally

\*\* enabled, all filenames passed to `[sqlite3_open()]`, `[sqlite3_open_v2()]`,

\*\* `[sqlite3_open16()]` or

\*\* specified as part of `[ATTACH]` commands are interpreted as URIs, regardless

\*\* of whether or not the `[SQLITE_OPEN_URI]` flag is set when the database

\*\* connection is opened. ^If it is globally disabled, filenames are

\*\* only interpreted as

URIs if the `SQLITE_OPEN_URI` flag is set when the

\*\* database connection is opened. ^By default, URI handling is globally

\*\* disabled. The default value may be changed by compiling with the

\*\* `[SQLITE_USE_URI]` symbol defined.)^

\*\*

\*\* `[[SQLITE_CONFIG_COVERING_INDEX_SCAN]]` <dt>`SQLITE_CONFIG_COVERING_INDEX_SCAN`

\*\* <dd>^The `SQLITE_CONFIG_COVERING_INDEX_SCAN` option takes a single integer

\*\* argument which is interpreted as a boolean in order to enable or disable

\*\* the use of covering indices for full table scans in the query optimizer.

\*\* ^The default setting is determined

\*\* by the `[SQLITE_ALLOW_COVERING_INDEX_SCAN]` compile-time option, or is "on"

\*\* if that compile-time option is omitted.

\*\* The ability to disable the use of covering indices for full table scans

\*\* is because some incorrectly coded legacy applications might malfunction

\*\* when the optimization is enabled. Providing the ability to

\*\* disable the optimization allows the older, buggy application code to work

\*\* without change

even with newer versions of SQLite.

\*\*

\*\* `[[SQLITE_CONFIG_PCACHE]]` `[[SQLITE_CONFIG_GETPCACHE]]`

\*\* <dt>`SQLITE_CONFIG_PCACHE` and `SQLITE_CONFIG_GETPCACHE`

\*\* <dd> These options are obsolete and should not be used by new code.

\*\* They are retained for backwards compatibility but are now no-ops.

\*\* </dd>

\*\*

\*\* `[[SQLITE_CONFIG_SQLLOG]]`

\*\* <dt>`SQLITE_CONFIG_SQLLOG`

\*\* <dd>This option is only available if `sqlite` is compiled with the

\*\* `[SQLITE_ENABLE_SQLLOG]` pre-processor macro defined. The first argument should

\*\* be a pointer to a function of type `void (*)(void*,sqlite3*,const char*, int)`.

\*\* The second should be of type `(void*)`. The callback is invoked by the library

\*\* in three separate circumstances, identified by the value passed as the

\*\* fourth parameter. If the fourth parameter is 0, then the database connection

\*\* passed as the second argument has just been opened. The third argument

\*\* points to a buffer containing the name of the main database file. If the

\*\* fourth parameter is 1,

then the SQL statement that the third parameter

\*\* points to has just been executed. Or, if the fourth parameter is 2, then

\*\* the connection being passed as the second parameter is being closed. The

\*\* third parameter is passed NULL In this case. An example of using this

\*\* configuration option can be seen in the "test\_sqllog.c" source file in

\*\* the canonical SQLite source tree.</dd>

\*\*

\*\* [[SQLITE\_CONFIG\_MMAP\_SIZE]]

\*\* <dt>SQLITE\_CONFIG\_MMAP\_SIZE

\*\* <dd>^SQLITE\_CONFIG\_MMAP\_SIZE takes two 64-bit integer (sqlite3\_int64) values

\*\* that are the default mmap size limit (the default setting for

\*\* [PRAGMA mmap\_size]) and the maximum allowed mmap size limit.

\*\* ^The default setting can be overridden by each database connection using

\*\* either the [PRAGMA mmap\_size] command, or by using the

\*\* [SQLITE\_FCNTL\_MMAP\_SIZE] file control. ^(The maximum allowed mmap size

\*\* will be silently truncated if necessary so that it does not exceed the

\*\* compile-time maximum mmap size set by the

\*\* [SQLITE\_MAX\_MMAP\_SIZE]

compile-time option.)^

\*\* ^If either argument to this option is negative, then that argument is

\*\* changed to its compile-time default.

\*\*

\*\* [[SQLITE\_CONFIG\_WIN32\_HEAPSIZE]]

\*\* <dt>SQLITE\_CONFIG\_WIN32\_HEAPSIZE

\*\* <dd>^The SQLITE\_CONFIG\_WIN32\_HEAPSIZE option is only available if SQLite is

\*\* compiled for Windows with the [SQLITE\_WIN32\_MALLOC] pre-processor macro

\*\* defined. ^SQLITE\_CONFIG\_WIN32\_HEAPSIZE takes a 32-bit unsigned integer value

\*\* that specifies the maximum size of the created heap.

\*\*

\*\* [[SQLITE\_CONFIG\_PCACHE\_HDRSZ]]

\*\* <dt>SQLITE\_CONFIG\_PCACHE\_HDRSZ

\*\* <dd>^The SQLITE\_CONFIG\_PCACHE\_HDRSZ option takes a single parameter which

\*\* is a pointer to an integer and writes into that integer the number of extra

\*\* bytes per page required for each page in [SQLITE\_CONFIG\_PAGECACHE].

\*\* The amount of extra space required can change depending on the compiler,

\*\* target platform, and SQLite version.

\*\*

\*\* [[SQLITE\_CONFIG\_PMASZ]]

\*\* <dt>SQLITE\_CONFIG\_PMASZ

\*\* <dd>^The

SQLITE\_CONFIG\_PMASZ option takes a single parameter which

\*\* is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded

\*\* sorter to that integer. The default minimum PMA Size is set by the

\*\* [SQLITE\_SORTER\_PMASZ] compile-time option. New threads are launched

\*\* to help with sort operations when multithreaded sorting

\*\* is enabled (using the [PRAGMA threads] command) and the amount of content

\*\* to be sorted exceeds the page size times the minimum of the

\*\* [PRAGMA cache\_size] setting and this value.

```

**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals
 never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order.
 The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behavior.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dd>
** /

```

Found in path(s):

\* /opt/cola/permits/1899226984\_1709786417.4208791/0/sqlite-amalgamation-3450100-zip/sqlite-amalgamation-

# 1.75 fstools 2018-12-28

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\* /opt/cola/permits/1943816922\_1711071025.805738/0/fstools-2018-12-28-

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

af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libfstools/rootdisk.c

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af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libblkid-tiny/btrfs.c

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\* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.  
\*  
\* Author: Artem Bityutskiy  
\*  
\* UBI (Unsorted Block Images) library.  
\*/

Found in path(s):

\* /opt/cola/permits/1943816922\_1711071025.805738/0/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libubi/libubi.h

\*

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

\* /opt/cola/permits/1943816922\_1711071025.805738/0/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libubi/libubi\_int.h

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\* /opt/cola/permits/1943816922\_1711071025.805738/0/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libblkid-tiny/mkdev.c

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\* /opt/cola/permits/1943816922\_1711071025.805738/0/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libblkid-tiny/swap.c

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* /opt/cola/permits/1943816922_1711071025.805738/0/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/probe.c
* /opt/cola/permits/1943816922_1711071025.805738/0/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/probe.h
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* /opt/cola/permits/1943816922_1711071025.805738/0/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libfstools/snapshot.c
* /opt/cola/permits/1943816922_1711071025.805738/0/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libfstools/volume.h
* /opt/cola/permits/1943816922_1711071025.805738/0/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libfstools/overlay.c
*
/opt/cola/permits/1943816922_1711071025.805738/0/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libfstools/libfstools.h
* /opt/cola/permits/1943816922_1711071025.805738/0/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/mount_root.c
* /opt/cola/permits/1943816922_1711071025.805738/0/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28-af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/ubi.c
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```



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```

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

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 * blkidP.h - Internal interfaces for libblkid
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## 1.82 ip-address 1.0.17

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# 1.83 wsgiref 0.1.2

## 1.83.1 Available under license :

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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](mailto: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/](http://peak.telecommunity.com/wsgiref_docs/)

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

Platform: UNKNOWN

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