# ılıılı cısco



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

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

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

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

Release	Deriv	ed Y	Year		ner (	GPL-
from	compatible? (1)					
0.9.0 thru	1.2	199	1-1995	CW	I y	ves
1.3 thru 1	.5.2 1.2	19	95-199	9 CN	IRI	yes
1.6	1.5.2	2000	CN	NRI	no	
2.0	1.6	2000	Be	Open.	com no	)
1.6.1	1.6	2001	CN	NRI	yes (	2)
2.1	2.0+1.6	.1 200	1 I	PSF	no	
2.0.1	2.0+1.6	5.1 200	)1	PSF	yes	
2.1.1	2.1+2.0	0.1 200	)1	PSF	yes	
2.2	2.1.1					
2001	PSF	yes				
2.1.2	2.1.1	2002	PS	SF	yes	
2.1.3	2.1.2	2002	PS	SF	yes	
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2.2.2	2.2.1	2002	PS	SF	yes	
2.2.3	2.2.2	2003	PS	SF	yes	
2.3	2.2.2	2002-	2003	PSF	yes	•
2.3.1	2.3	2002-	2003	PSF	yes	•
2.3.2	2.3.1	2002	-2003	PSF	ye	S
2.3.3	2.3.2	2002	-2003	PSF	ye	S
2.3.4	2.3.3	2004	PS	SF	yes	
2.3.5	2.3.4	2005	PS	SF	yes	
2.4	2.3	2004	PSI	F	yes	
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Julian Seward, Cambridge, UK. jseward@acm.org bzip2/libbzip2 version 1.0.2 of 30 December 2001

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

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# 1.6 enum34 1.1.6

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# 1.12 glibc 2.30

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#### @item

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The following people have submitted changes which have been applied to the core:

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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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.....

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

import sys from setuptools import setup import io

version = "2.1"

def main():

python\_version = sys.version\_info[:2]
if python\_version < (2,6):
 raise SystemExit("Sorry, Python 2.6 or newer required")</pre>

```
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',
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    'url': 'https://github.com/kjd/idna',
     'classifiers': [
       'Development Status :: 5 - Production/Stable',
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       '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

# 1.28 protobuf-to-dict 0.1.0

### 1.28.1 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', 'nosexcover'],

test\_suite = 'nose.collector',

classifiers=[

'Programming Language :: Python',

'Development Status :: 4 - Beta',

'Intended Audience :: Developers',

'License :: Public Domain',

'Operating System :: OS Independent',

'Topic :: Software Development :: Libraries :: Python Modules',

)

],

Found in path(s):

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

# 1.29 rom 0.42.6

### 1.29.1 Available under license :

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# 1.30 pylint 1.4.4

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\*

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.. image:: https://travis-ci.org/mriehl/fysom.png?branch=master

- :alt: Travis build status image
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#### 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 <a href="http://pybuilder.github.io">`\_.</a>

::

sudo pip install pyb\_init pyb-init github mriehl : fysom

Running the tests

-----

::

pyb verify

Generating and using a setup.py

\_\_\_\_\_

Open Source Used In Remote PHY (version 10.8) v10.8 289

::

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

... 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:

::

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

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

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

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

::

Dynamically generated event names

\_\_\_\_\_

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.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

-----

::

This example will create an object with 2 event methods:

- fsm.eat()

- fsm.rest()

The rest event will always transition to the hungry state, while the eat event will transition to a state that is dependent on the current state. NOTE the rest event in the above example can also be specified as multiple events with the same name if you prefer the verbose approach.

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

::

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

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.

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PLY (Python Lex-Yacc) Version 3.9

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#### Introduction

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

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

 PLY provides \*very\* extensive error reporting and diagnostic information to assist in parser construction. The original

implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.
- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.
- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces

the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due

to its Python implementation,

PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

### How to Use

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

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

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

import lex import yacc

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The

example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

#### Requirements

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PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

#### Resources

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#### More information about PLY can be obtained on the PLY webpage at:

http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply

An old and relatively inactive discussion group for PLY is found at:

http://groups.google.com/group/ply-hack

Acknowledgments

\_\_\_\_\_

A

special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0

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

Example

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

# ------

# calc.py

#

# A simple calculator with variables.

```
-----
tokens = (
  'NAME', 'NUMBER',
  'PLUS', 'MINUS', 'TIMES', 'DIVIDE', 'EQUALS',
  'LPAREN', 'RPAREN',
  )
# Tokens
t\_PLUS = r' + '
t_MINUS = r'-'
t_TIMES = r' *'
t\_DIVIDE = r'/'
t_EQUALS = r'='
t\_LPAREN = r' ('
t\_RPAREN = r')'
t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'
def t_NUMBER(t):
  r' d+'
  t.value = int(t.value)
  return t
# Ignored characters
t_ignore = " t"
def t_newline(t):
  r'∖n+'
  t.lexer.lineno += t.value.count("\n")
def t_error(t):
  print("Illegal character '%s'" % t.value[0])
  t.lexer.skip(1)
# Build the lexer
import ply.lex as lex
lex.lex()
# Precedence rules for the arithmetic operators
precedence = (
  ('left','PLUS','MINUS'),
  ('left','TIMES','DIVIDE'),
  ('right','UMINUS'),
  )
# dictionary of names (for storing variables)
```

```
names = \{ \}
```

```
def p_statement_assign(p):
  'statement : NAME EQUALS expression'
  names[p[1]] = p[3]
def p_statement_expr(p):
  'statement : expression'
  print(p[1])
def p_expression_binop(p):
  "expression : expression PLUS expression
          | expression MINUS expression
          | expression TIMES expression
          | expression DIVIDE expression'''
  if p[2] == + : p[0] = p[1] + p[3]
  elif p[2] == '-': p[0] = p[1] - p[3]
  elif p[2] == '*': p[0] = p[1] * p[3]
  elif p[2] == '/': p[0] = p[1] / p[3]
def p_expression_uminus(p):
  'expression : MINUS expression %prec UMINUS'
  p[0] = -p[2]
def p_expression_group(p):
  'expression : LPAREN expression RPAREN'
  p[0] = p[2]
def p_expression_number(p):
  'expression : NUMBER'
   p[0] = p[1]
def p_expression_name(p):
  'expression : NAME'
  try:
    p[0] = names[p[1]]
  except LookupError:
    print("Undefined name '%s'" % p[1])
    p[0] = 0
def p_error(p):
  print("Syntax error at '%s'" % p.value)
import ply.yacc as yacc
yacc.yacc()
while True:
  try:
    s = raw_input('calc > ') # use input() on Python 3
```

except EOFError: break yacc.parse(s)

### Bug Reports and Patches

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

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\* Small patch to handle trailing slashes in --proto\_path flag.

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\* Small patch to fix Python CallMethod().

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\* Small optimizations to Python serialization.

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\* VI syntax highlighting tweaks.

\* Fix compiler to not make output executable.

Dilip Joseph <dilip.antony.joseph@gmail.com>

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

text format.

Brian Atkinson <nairb774@gmail.com>

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

Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>

\* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>

\* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>

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

Oleg Smolsky <oleg.smolsky@gmail.com>

\* MS Visual Studio error format option.

\* Detect unordered\_map in stl\_hash.m4.

Brian Olson <brianolson@google.com>

\* gzip/zlib I/O support.

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\* Fixed warnings about generated constructors not explicitly initializing

all fields (only present with certain compiler settings).

\* Added generation of field number constants.

Wink Saville <wink@google.com>

\* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

\* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>

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

Scott Stafford <scott.stafford@gmail.com>

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

Alexander Melnikov <alm@sibmail.ru>

\* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

\* Detect whether zlib is new enough in configure script.

\* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

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

Michael Kucharski <m.kucharski@gmail.com>

\* Added CodedInputStream.getTotalBytesRead().

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William Orr <will@worrbase.com>

\* Fixed detection of sched\_yield on Solaris.

\* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

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

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loginrec is written primarily by Andre Lucas, atomicio.c by Theo de Raadt.

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```
29.1/service/instance.c
```

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

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

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

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

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

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

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

\*

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

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

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/utils/askfirst.c

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

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

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

29.1/upgraded/upgraded.c

\*

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

 $* / opt/cola/permits/1349076481\_1655887512.502539 / 0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1 / initd/early.cola/permits/1349076481\_1655887512.502539 / 0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1 / initd/early.cola/permits/1349076481\_10-29-10$ 

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

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

29.1/service/service.c

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

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

29.1/service/trigger.c

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

29.1/service/validate.c

\* /opt/cola/permits/1349076481\_1655887512.502539/0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1/initd/init.h No license file was found, but licenses were detected in source scan.

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\* runqueue-example.c

\*

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```
*/
```

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```
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

 $* / opt/cola/permits/1349076481\_1655887512.502539 / 0/procd-2015-10-29-1-tar-gz/procd-2015-10-29.1 / jail/elf.http://procd-2015-10-29.1 / jail/elf.http://pro$ 

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

29.1/jail/seccomp.h

\*

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

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

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

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Metadata-Version: 1.0
Name: wsgiref
Version: 0.1.2
Summary: WSGI (PEP 333) Reference Library
Home-page: http://cheeseshop.python.org/pypi/wsgiref
Author: Phillip J. Eby
Author-email: web-sig@python.org
License: PSF or ZPL
Description: This is a standalone release of the ``wsgiref` library to be included in Python 2.5. For the standalone version's documentation, see:

## HTML

http://peak.telecommunity.com/wsgiref\_docs/

## PDF

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

### Platform: UNKNOWN

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

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## 1.49 glibc 0.6.1

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# 1.51 tdb 1.47.0

# 1.51.1 Available under license :

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## 1.53 ncurses 6.4

### 1.53.1 Available under license :

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Current neurses maintainer: Thomas Dickey </ dickey@invisible-island.net>

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Andreas Hasenack 2019/03/18 wepoll - epoll for Windows https://github.com/piscisaureus/wepoll

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# 1.61 python 2.7.18

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

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

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Release	Derive	ed Yea	r Own	er GPL-	
from			com	compatible? (1)	
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1.3 thru 1.5.2 1.2 1995-1999 CNRI yes					
1.6	1.5.2	2000	CNRI	no	
2.0	1.6	2000	BeOpen.o	com no	
1.6.1	1.6	2001	CNRI	yes (2)	
2.1	2.0+1.6.	1 2001	PSF	no	
2.0.1	2.0+1.6	5.1 2001	PSF	yes	
2.1.1	2.1 + 2.0	0.1 2001	PSF	yes	
2.1.2	2.1.1	2002	PSF	yes	

2.1.3 2.1.2 2002 PSF yes 2.2 and above 2.1.1 2001-now PSF yes

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## **1.62 e2fsprogs 1.47.0** 1.62.1 Available under license :

Index: tdbsa/tdb.c

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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Theodore Ts'o 23-June-2007

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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\_IMAGE = 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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# 1.63 tcpdump 4.99.4

## 1.63.1 Available under license :

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THIS SOFTWARE IS PROVIDED ``AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. # -\*- 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'
    },
];
```

## 1.64 util-linux 2.37.4

## **1.64.1 Available under license :** 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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calculate\_md5\_sum() {
 local FILE="\$1"

# Read the contents of the file into a variable

local raw\_license\_text=\$(<"\$FILE")</pre>

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

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

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

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

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

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

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

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

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

```
# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B "1
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...
```

;9GimCN7g

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

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

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

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

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

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

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# 1.65 wpa-supplicant 2.9

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Written by:Philip HazelEmail local part:ph10Email domain:cam.ac.uk

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## 1.70 libxml2 2.11.6

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## 1.72 posix\_ipc 1.0.0

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## 1.74 rsyslog 8.2308.0

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# 1.77 sqlite 3.45.1

# 1.77.1 Available under license :

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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 -I\$SQDIR \$OPTS -fPIC -o base85.so base85.c

\*\* OSX: gcc -O2 -dynamiclib -fPIC -I\$SQDIR \$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:

\*\* \*\* SQLITE CONFIG LOG \*\* SQLITE CONFIG PCACHE HDRSZ \*\* \*\* \*\* 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:

\*\*

\*\* [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.
** </dd>
**
** [[SOLITE CONFIG SCRATCH]] <dt>SOLITE 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.)^ </db> \*\* \*\* [[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.

- \*\* </dl>
- \*/

```
/*
```

\*\* 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:
```

\*\*

```
** SQLITE_CONFIG_LOG
```

```
**
```

SQLITE\_CONFIG\_PCACHE\_HDRSZ

```
**
```

\*\*

\*\* 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:
```

\*\*

```
** [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.
```

```
** </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.)^ </d>

\*\*

- \*\* [[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.

\*\* </dl>

\*/

Found in path(s):

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

## 1.78 fstools 2018-12-28

### 1.78.1 Available under license :

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```
/*
```

\* Copyright (C) 2016 Felix Fietkau <nbd@nbd.name>

\*

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```
*/
```

Found in path(s):

```
* /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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\* Author: Artem Bityutskiy

\*

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

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\* blkidP.h - Internal interfaces for libblkid

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\* /opt/cola/permits/1943816922\_1711071025.805738/0/fstools-2018-12-28af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libblkid-tiny/blkdev.h \* /opt/cola/permits/1943816922\_1711071025.805738/0/fstools-2018-12-28af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libblkid-tiny/bitops.h No license file was found, but licenses were detected in source scan.

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\* /opt/cola/permits/1943816922\_1711071025.805738/0/fstools-2018-12-28af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33-tar-xz/fstools-2018-12-28af93f4b8dc32cf1320dfe8f4b93bb3a12606fc33/libblkid-tiny/ext.c No license file was found, but licenses were detected in source scan.

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```
*
```

```
* Author: Artem Bityutskiy ()
```

```
*/
```

Found in path(s):

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

# 1.79 lldpd 1.0.17

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```
Files: *
```

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Comment:

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## 1.81 lua-cjson 2.1.0

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