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1.1 json-cpp 1.9.5

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1.2 zlib 1.2.13

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1.5 sqlite 3.40.1

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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.
**
** 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.)^ </dd>
 **
 ** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
 ** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
 ** global [error log].
 ** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
 ** function with a call signature of void(*)(void*,int,const char*),
 ** and a pointer to void. ^If the function pointer is not NULL, it is
 ** invoked by [sqlite3_log()] to process each logging event. ^If the
 ** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.

** ^The void pointer that is the second argument to `SQLITE_CONFIG_LOG` is
 ** passed through as the first parameter
 ** to the application-defined logger
 ** function whenever that function is invoked. ^The second parameter to
 ** the logger function is a copy of the first parameter to the corresponding
 ** `[sqlite3_log()]` call and is intended to be a [result code] or an
 ** [extended result code]. ^The third parameter passed to the logger is
 ** log message after formatting via `[sqlite3_snprintf()]`.
 ** The SQLite logging interface is not reentrant; the logger function
 ** supplied by the application must not invoke any SQLite interface.
 ** In a multi-threaded application, the application-defined logger
 ** function must be threadsafe. </dd>

**

** `[[SQLITE_CONFIG_URI]]` <dt>`SQLITE_CONFIG_URI`
 ** <dd>^The `SQLITE_CONFIG_URI` option takes a single argument of type `int`.
 ** If non-zero, then URI handling is globally enabled. If the parameter is zero,
 ** then URI handling is globally disabled.)^ ^If URI handling is globally
 ** enabled, all filenames passed to `[sqlite3_open()]`, `[sqlite3_open_v2()]`,
 ** `[sqlite3_open16()]`
 **
 ** or
 ** specified as part of `[ATTACH]` commands are interpreted as URIs, regardless
 ** of whether or not the `SQLITE_OPEN_URI` flag is set when the database
 ** connection is opened. ^If it is globally disabled, filenames are
 ** only interpreted as URIs if the `SQLITE_OPEN_URI` flag is set when the
 ** database connection is opened. ^By default, URI handling is globally
 ** disabled. The default value may be changed by compiling with the
 ** `SQLITE_USE_URI` symbol defined.)^

**

** `[[SQLITE_CONFIG_COVERING_INDEX_SCAN]]` <dt>`SQLITE_CONFIG_COVERING_INDEX_SCAN`
 ** <dd>^The `SQLITE_CONFIG_COVERING_INDEX_SCAN` option takes a single integer
 ** argument which is interpreted as a boolean in order to enable or disable
 ** the use of covering indices for full table scans in the query optimizer.
 ** ^The default setting is determined
 ** by the `SQLITE_ALLOW_COVERING_INDEX_SCAN` compile-time option, or is "on"
 ** if that compile-time option is omitted.
 ** The ability to disable the use of covering indices
 ** for full table scans
 ** is because some incorrectly coded legacy applications might malfunction
 ** when the optimization is enabled. Providing the ability to
 ** disable the optimization allows the older, buggy application code to work
 ** without change even with newer versions of SQLite.

**

** `[[SQLITE_CONFIG_PCACHE]]` `[[SQLITE_CONFIG_GETPCACHE]]`
 ** <dt>`SQLITE_CONFIG_PCACHE` and `SQLITE_CONFIG_GETPCACHE`
 ** <dd> These options are obsolete and should not be used by new code.
 ** They are retained for backwards compatibility but are now no-ops.

** </dd>

**

SQLITE_CONFIG_SQLLOG
 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.

SQLITE_CONFIG_MMAP_SIZE
`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
 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
 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 behaviour.

** 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/1541729670_1675313227.6905026/0/sqlite-amalgamation-3400100-zip/sqlite-amalgamation-3400100/sqlite3.h

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

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

Found in path(s):

* /opt/cola/permits/1541729670_1675313227.6905026/0/sqlite-amalgamation-3400100-zip/sqlite-amalgamation-3400100/shell.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.

**

** 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.)^ </dd>

**

** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>

** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite

** global [error log].

** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a

** function with a call signature of void (*)(void*,int,const char*),

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

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

bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].

** The amount of extra space required can change depending on the compiler,
 ** target platform, and SQLite version.
 **

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

** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
 ** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
 ** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
 ** becomes the [statement journal] spill-to-disk threshold.
 **

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

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

** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]


```

** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
** configuration setting is
never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dd>
*/
/*
** The "printf" code that follows dates from the 1980's. It is in
** the public domain.
**
*****
**
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/
/*
** 2004 May 22
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
**   May you do good and not evil.
**   May you find forgiveness for yourself and forgive others.
**   May you share freely, never taking more than you give.
**
*****
**
** This file
contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUNIX, 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 labeled.
**
** 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/1541729670_1675313227.6905026/0/sqlite-amalgamation-3400100-zip/sqlite-amalgamation-3400100/sqlite3.c

```

1.6 libpcap 1.05

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- *
- */opt/cola/permits/1557375493_1677774279.2218926/0/2b1be0a8976ecd1cd27d7c3d01af9a8d736344f8-zip/include/pcap/socket.h
- * /opt/cola/permits/1557375493_1677774279.2218926/0/2b1be0a8976ecd1cd27d7c3d01af9a8d736344f8-zip/include/pcap/funcattrs.h
- * /opt/cola/permits/1557375493_1677774279.2218926/0/2b1be0a8976ecd1cd27d7c3d01af9a8d736344f8-zip/include/pcap/compiler-tests.h

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* /opt/cola/permits/1557375493_1677774279.2218926/0/2b1be0a8976ecd1cd27d7c3d01af9a8d736344f8-
zip/include/pcap/sll.h
* /opt/cola/permits/1557375493_1677774279.2218926/0/2b1be0a8976ecd1cd27d7c3d01af9a8d736344f8-
zip/include/pcap/ipnet.h
* /opt/cola/permits/1557375493_1677774279.2218926/0/2b1be0a8976ecd1cd27d7c3d01af9a8d736344f8-
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* By Paolo Abeni <paolo.abeni@email.it>
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* bluetooth data struct

* By Paolo Abeni <paolo.abeni@email.it>

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1.16 openssl 3.4.2

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