



# Open Source Used In AnyConnect VPN Client Software 5.1

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## Contents

### **1.1 Idns 1.6.17**

1.1.1 Available under license

### **1.2 zlib 1.2.3**

1.2.1 Available under license

### **1.3 boost 1.68.0**

1.3.1 Available under license

### **1.4 libevent 2.0.21-stable**

1.4.1 Available under license

### **1.5 nghttp2 1.3.6**

1.5.1 Available under license

### **1.6 libsodium 1.0.18**

1.6.1 Available under license

### **1.7 rapidxml 1.13**

1.7.1 Available under license

### **1.8 grpc 1.34.0**

1.8.1 Available under license

### **1.9 cJSON 1.7.14**

1.9.1 Available under license

### **1.10 c-ares 1.17.0**

1.10.1 Available under license

### **1.11 log4net 1.2**

1.11.1 Available under license

### **1.12 newtonsoft-json 6.0.2.16931**

1.12.1 Available under license

### **1.13 sqlite 3.35.5**

1.13.1 Available under license

- 1.14 libsodium 2.0.20**
  - 1.14.1 Available under license
- 1.15 tiny-xml 2.5.3**
  - 1.15.1 Available under license
- 1.16 json-cpp 1.9.5**
  - 1.16.1 Available under license
- 1.17 visual-studio-runtime 14.29.30139.0**
  - 1.17.1 Available under license
- 1.18 curl 7.84.0**
  - 1.18.1 Available under license
- 1.19 zlib 1.2.11**
  - 1.19.1 Available under license
- 1.20 zlib 1.2.13**
  - 1.20.1 Available under license
- 1.21 libxml2 2.10.3**
  - 1.21.1 Available under license
- 1.22 protobuf 3.21.6**
  - 1.22.1 Available under license
- 1.23 boost 1.81.0**
  - 1.23.1 Available under license
- 1.24 libressl 3.4.2**
  - 1.24.1 Notifications
  - 1.24.2 Available under license
- 1.25 sqlite 3.40.1**
  - 1.25.1 Available under license
- 1.26 libpcap 1.05**
  - 1.26.1 Available under license
- 1.27 log4cplus 2.0.7**
  - 1.27.1 Available under license
- 1.28 re2 20221201-5b38a02**
  - 1.28.1 Available under license
- 1.29 openssl 1.1.1t**
  - 1.29.1 Notifications
  - 1.29.2 Available under license
- 1.30 curl 7.88.1**
  - 1.30.1 Available under license
- 1.31 grpc 1.52.1**
  - 1.31.1 Available under license
- 1.32 sqlite 3.42.0**

- 1.32.1 Available under license
- 1.33 curl 8.1.2**
  - 1.33.1 Available under license
- 1.34 openssl 1.1.1u**
  - 1.34.1 Available under license
- 1.35 libxml2 2.11.4**
  - 1.35.1 Available under license
- 1.36 visual-studio-runtime 14.36.32532.0**
  - 1.36.1 Available under license
- 1.37 winpcap 1.05**
  - 1.37.1 Available under license
- 1.38 libssh 0.10.5**
  - 1.38.1 Available under license
- 1.39 curl 8.2.0**
  - 1.39.1 Available under license

## 1.1 Idns 1.6.17

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```
#!/bin/sh
# install - install a program, script, or datafile

scriptversion=2009-04-28.21; # UTC

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#
#
/* From openssh 4.3p2 filename openbsd-compat/fake-rfc2553.h */
/*
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*/
/* From openssh4.3p2 compat/inet_aton.c */
/*
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```

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# Author: Christopher Olah <colah@xelerance.com>

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"" Easy DNS (including DNSSEC) via ldns.

ldns is a great library. It is a powerful tool for working with DNS. python-ldns it is a straight up clone of the C interface, however that is not a very good interface for python. Its documentation is incomplete and some functions don't work as described. And some objects don't have a full python API.

ldnsx aims to fix this. It wraps around the ldns python bindings, working around its limitations and providing a well-documented, more pythonistic interface.

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## 1.2 zlib 1.2.3

### 1.2.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017
```

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dossier (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu(hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson(brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen(Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard(beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz(schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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```
<!DOCTYPE html>
```

```
<html>
```

```
<head></head>
<body>
  <h3>
    Copyright Test
  </h3>
  <p class="copyright">
    1963, 1964, 1965 Jane Doe
  </p>
  <p class="copyright">
    2018 Joe Blow, John Coe
  </p>
  <p class="copyright">
    1977, 1985 Someone else
  </p>
</body>
</html>
```

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```
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"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
  <articleinfo>
    <copyright>
      <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
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      <year>2018</year> <holder>Joe Blow, John Coe</holder>
    </copyright>
    <copyright>
      <year>1977</year> <year>1985</year> <holder>Someone else</holder>
    </copyright>
  </articleinfo>
</article>
```

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////

[#mpl]

# MPL Support, <boost/mp11/mpl.hpp>

:toc:

:toc-title:

:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

## 1.4 libevent 2.0.21-stable

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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## 1.13 sqlite 3.35.5

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May you find forgiveness for yourself and forgive others.

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## 1.14 libsodium 2.0.20

### 1.14.1 Available under license :

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 *
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 * Frank Denis <j at pureftpd dot org>
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*/
```

## 1.15 tiny-xml 2.5.3

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```
/*
www.sourceforge.net/projects/tinyxml
Original code by Lee Thomason (www.grinninglizard.com)
```

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\* /opt/cola/permits/1232784457\_1637846037.69/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinystl.h

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/\*\* @mainpage

<h1> TinyXML </h1>

TinyXML is a simple, small, C++ XML parser that can be easily integrated into other programs.

<h2> What it does. </h2>

In brief, TinyXML parses an XML document, and builds from that a Document Object Model (DOM) that can be read, modified, and saved.

XML stands for "eXtensible Markup Language." It allows you to create your own document markups. Where HTML does a very good job of marking documents for browsers, XML allows you to define any kind of document markup, for example a document that describes a "to do" list for an organizer application. XML is a very structured and convenient format. All those random file formats created to store application data can all be replaced with XML. One parser for everything.

The best place for the complete, correct, and quite frankly hard to read spec is at <http://www.w3.org/TR/2004/REC-xml-20040204/>. An intro to XML (that I really like) can be found at <http://skew.org/xml/tutorial/>.

There are different ways to access and interact with XML data. TinyXML uses a Document Object Model (DOM), meaning the XML data is parsed into a C++ objects that can be browsed and manipulated, and then written to disk or another output stream. You can also construct an XML document from scratch with C++ objects and write this to disk or another output stream.

TinyXML is designed to be easy and fast to learn. It is two headers and four cpp files. Simply add these to your project and off you go. There is an example file - xmltest.cpp - to get you started.

TinyXML is released under the ZLib license, so you can use it in open source or commercial code. The details of the license are at the top of every source file.

TinyXML attempts to be a flexible parser, but with truly correct and compliant XML output. TinyXML should compile on any reasonably C++ compliant system. It does not rely on exceptions or RTTI. It can be compiled with or without STL support. TinyXML fully supports the UTF-8 encoding, and the first 64k character entities.

<h2> What it doesn't do. </h2>

TinyXML doesn't parse or use DTDs (Document Type Definitions) or XSLs

(eXtensible Stylesheet Language.) There are other parsers out there (check out [www.sourceforge.org](http://www.sourceforge.org), search for XML) that are much more fully featured. But they are also much bigger, take longer to set up in your project, have a higher learning curve, and often have a more restrictive license. If you are working with browsers or have more complete XML needs, TinyXML is not the parser for you.

The following DTD syntax will not parse at this time in TinyXML:

```
@verbatim
<!DOCTYPE Archiv [
  <!ELEMENT Comment (#PCDATA)>
]>
@endverbatim
```

because TinyXML sees this as a !DOCTYPE node with an illegally embedded !ELEMENT node. This may be addressed in the future.

<h2> Tutorials. </h2>

For the impatient, here is a tutorial to get you going. A great way to get started, but it is worth your time to read this (very short) manual completely.

- @subpage tutorial0

<h2> Code Status. </h2>

TinyXML is mature, tested code. It is very stable. If you find bugs, please file a bug report on the sourceforge web site ([www.sourceforge.net/projects/tinyxml](http://www.sourceforge.net/projects/tinyxml)). We'll get them straightened out as soon as possible.

There are some areas of improvement; please check sourceforge if you are interested in working on TinyXML.

<h2> Related Projects </h2>

TinyXML projects you may find useful! (Descriptions provided by the projects.)

```
<ul>
<li> <b>TinyXPath</b> (http://tinypath.sourceforge.net). TinyXPath is a small footprint XPath syntax decoder, written in C++.</li>
<li> <b>TinyXML++</b> (http://code.google.com/p/ticpp/). TinyXML++ is a completely new interface to TinyXML that uses MANY of the C++ strengths. Templates, exceptions, and much better error handling.</li>
</ul>
```

<h2> Features </h2>

### <h3> Using STL </h3>

TinyXML can be compiled to use or not use STL. When using STL, TinyXML uses the `std::string` class, and fully supports `std::istream`, `std::ostream`, `operator<<`, and `operator>>`. Many API methods have both `'const char*'` and `'const std::string&'` forms.

When STL support is compiled out, no STL files are included whatsoever. All the string classes are implemented by TinyXML itself. API methods all use the `'const char*'` form for input.

Use the compile time `#define`:

```
TIXML_USE_STL
```

to compile one version or the other. This can be passed by the compiler, or set as the first line of `"tinyxml.h"`.

Note: If compiling the test code in Linux, setting the environment variable `TINYXML_USE_STL=YES/NO` will control STL compilation. In the Windows project file, STL and non STL targets are provided. In your project, It's probably easiest to add the line `"#define TIXML_USE_STL"` as the first line of `tinyxml.h`.

### <h3> UTF-8 </h3>

TinyXML supports UTF-8 allowing to manipulate XML files in any language. TinyXML also supports "legacy mode" - the encoding used before UTF-8 support and probably best described as "extended ascii".

Normally, TinyXML will try to detect the correct encoding and use it. However, by setting the value of `TIXML_DEFAULT_ENCODING` in the header file, TinyXML can be forced to always use one encoding.

TinyXML will assume Legacy Mode until one of the following occurs:

<ol>

<li> If the non-standard but common "UTF-8 lead bytes" (0xef 0xbb 0xbf) begin the file or data stream, TinyXML will read it as UTF-8. </li>

<li> If the declaration tag is read, and it has an `encoding="UTF-8"`, then TinyXML will read it as UTF-8. </li>

<li> If the declaration tag is read, and it has no encoding specified, then TinyXML will read it as UTF-8. </li>

<li> If the declaration tag is read, and it has an `encoding="something else"`, then TinyXML will read it as Legacy Mode. In legacy mode, TinyXML will work as it did before. It's not clear what that mode does exactly, but old content should keep working.</li>

<li> Until one of the above criteria is met, TinyXML runs in Legacy Mode.</li>

</ol>

What happens if the encoding is incorrectly set or detected? TinyXML will try to read and pass through text seen as improperly encoded. You may get some strange results or mangled characters. You may want to force TinyXML to the correct mode.

You may force TinyXML to Legacy Mode by using `LoadFile( TIXML_ENCODING_LEGACY )` or `LoadFile( filename, TIXML_ENCODING_LEGACY )`. You may force it to use legacy mode all the time by setting `TIXML_DEFAULT_ENCODING = TIXML_ENCODING_LEGACY`. Likewise, you may force it to `TIXML_ENCODING_UTF8` with the same technique.

For English users, using English XML, UTF-8 is the same as low-ASCII. You don't need to be aware of UTF-8 or change your code in any way. You can think of UTF-8 as a "superset" of ASCII.

UTF-8 is not a double byte format - but it is a standard encoding of Unicode! TinyXML does not use or directly support `wchar`, `TCHAR`, or Microsoft's `_UNICODE` at this time. It is common to see the term "Unicode" improperly refer to UTF-16, a wide byte encoding of unicode. This is a source of confusion.

For "high-ascii" languages - everything not English, pretty much - TinyXML can handle all languages, at the same time, as long as the XML is encoded in UTF-8. That can be a little tricky, older programs and operating systems tend to use the "default" or "traditional" code page. Many apps (and almost all modern ones) can output UTF-8, but older or stubborn (or just broken) ones still output text in the default code page.

For example, Japanese systems traditionally use SHIFT-JIS encoding. Text encoded as SHIFT-JIS can not be read by TinyXML. A good text editor can import SHIFT-JIS and then save as UTF-8.

The `<a href="http://skew.org/xml/tutorial/">Skew.org link</a>` does a great job covering the encoding issue.

The test file "utf8test.xml" is an XML containing English, Spanish, Russian, and Simplified Chinese. (Hopefully they are translated correctly). The file "utf8test.gif" is a screen capture of the XML file, rendered in IE. Note that if you don't have the correct fonts (Simplified Chinese or Russian) on your system, you won't see output that matches the GIF file even if you can parse it correctly. Also note that (at least on my Windows machine) console output is in a Western code page, so that `Print()` or `printf()` cannot correctly display the file. This is not a bug in TinyXML - just an OS issue. No data is lost or destroyed by TinyXML. The console just doesn't render UTF-8.

`<h3> Entities </h3>`

TinyXML recognizes the pre-defined "character entities", meaning special characters. Namely:



```
@verbatim
&amp; &
&lt; <
&gt; >
&quot; "
&apos; '
@endverbatim
```

These are recognized when the XML document is read, and translated to there UTF-8 equivalents. For instance, text with the XML of:

```
@verbatim
Far &amp; Away
@endverbatim
```

will have the Value() of "Far & Away" when queried from the TiXmlText object, and will be written back to the XML stream/file as an ampersand. Older versions of TinyXML "preserved" character entities, but the newer versions will translate them into characters.

Additionally, any character can be specified by its Unicode code point:

The syntax "&#xA0;" or "&#160;" are both to the non-breaking space characher.

### <h3> Printing </h3>

TinyXML can print output in several different ways that all have strengths and limitations.

- Print( FILE\* ). Output to a std-C stream, which includes all C files as well as stdout.
- "Pretty prints", but you don't have control over printing options.
- The output is streamed directly to the FILE object, so there is no memory overhead in the TinyXML code.
- used by Print() and SaveFile()
  
- operator<<. Output to a c++ stream.
- Integrates with standart C++ iostreams.
- Outputs in "network printing" mode without line breaks. Good for network transmission and moving XML between C++ objects, but hard for a human to read.
  
- TiXmlPrinter. Output to a std::string or memory buffer.
- API is less concise
- Future printing options will be put here.
- Printing may change slightly in future versions as it is refined and expanded.

### <h3> Streams </h3>

With TIXML\_USE\_STL on TinyXML supports C++ streams (operator <<,>>) streams as well as C (FILE\*) streams. There are some differences that you may need to be aware of.

C style output:

- based on FILE\*

- the Print() and SaveFile() methods

Generates formatted output, with plenty of white space, intended to be as human-readable as possible. They are very fast, and tolerant of ill formed XML documents. For example, an XML document that contains 2 root elements and 2 declarations, will still print.

C style input:

- based on FILE\*
- the Parse() and LoadFile() methods

A fast, tolerant read. Use whenever you don't need the C++ streams.

C++ style output:

- based on std::ostream
- operator<<

Generates condensed output, intended for network transmission rather than readability. Depending on your system's implementation of the ostream class, these may be somewhat slower. (Or may not.) Not tolerant of ill formed XML: a document should contain the correct one root element. Additional root level elements will not be streamed out.

C++ style input:

- based on std::istream
- operator>>

Reads XML from a stream, making it useful for network transmission. The tricky part is knowing when the XML document is complete, since there will almost certainly be other data in the stream. TinyXML will assume the XML data is complete after it reads the root element. Put another way, documents that are ill-constructed with more than one root element will not read correctly. Also note that operator>> is somewhat slower than Parse, due to both implementation of the STL and limitations of TinyXML.

<h3> White space </h3>

The world simply does not agree on whether white space should be kept, or condensed. For example, pretend the '\_' is a space, and look at "Hello\_\_world". HTML, and at least some XML parsers, will interpret this as "Hello\_world". They condense white space. Some XML parsers do not, and will leave it as "Hello\_\_world". (Remember to keep pretending the \_ is a space.) Others suggest that \_\_Hello\_\_world\_\_ should become Hello\_\_world.

It's an issue that hasn't been resolved to my satisfaction. TinyXML supports the first 2 approaches. Call TiXmlBase::SetCondenseWhiteSpace( bool ) to set the desired behavior. The default is to condense white space.

If you change the default, you should call TiXmlBase::SetCondenseWhiteSpace( bool )

before making any calls to Parse XML data, and I don't recommend changing it after it has been set.

<h3> Handles </h3>

Where browsing an XML document in a robust way, it is important to check for null returns from method calls. An error safe implementation can generate a lot of code like:

```
@verbatim
TiXmlElement* root = document.FirstChildElement( "Document" );
if ( root )
{
    TiXmlElement* element = root->FirstChildElement( "Element" );
    if ( element )
    {
        TiXmlElement* child = element->FirstChildElement( "Child" );
        if ( child )
        {
            TiXmlElement* child2 = child->NextSiblingElement( "Child" );
            if ( child2 )
            {
                // Finally do something useful.
            }
        }
    }
}
@endverbatim
```

Handles have been introduced to clean this up. Using the TiXmlHandle class, the previous code reduces to:

```
@verbatim
TiXmlHandle docHandle( &document );
TiXmlElement* child2 = docHandle.FirstChild( "Document" ).FirstChild( "Element" ).Child( "Child", 1
).ToElement();
if ( child2 )
{
    // do something useful
}
@endverbatim
```

Which is much easier to deal with. See TiXmlHandle for more information.

<h3> Row and Column tracking </h3>

Being able to track nodes and attributes back to their origin location in source files can be very important for some applications. Additionally, knowing where parsing errors occurred in the original source can be very time saving.

TinyXML can track the row and column origin of all nodes and attributes

in a text file. The `TiXmlBase::Row()` and `TiXmlBase::Column()` methods return the origin of the node in the source text. The correct tabs can be configured in `TiXmlDocument::SetTabSize()`.

## <h2> Using and Installing </h2>

To Compile and Run `xmltest`:

A Linux Makefile and a Windows Visual C++ `.dsw` file is provided. Simply compile and run. It will write the file `demotest.xml` to your disk and generate output on the screen. It also tests walking the DOM by printing out the number of nodes found using different techniques.

The Linux makefile is very generic and runs on many systems - it is currently tested on mingw and MacOSX. You do not need to run 'make depend'. The dependencies have been hard coded.

### <h3>Windows project file for VC6</h3>

<ul>

<li>tinyxml: tinyxml library, non-STL </li>

<li>tinyxmlSTL: tinyxml library, STL </li>

<li>tinyXmlTest: test app, non-STL </li>

<li>tinyXmlTestSTL: test app, STL </li>

</ul>

### <h3>Makefile</h3>

At the top of the makefile you can set:

`PROFILE`, `DEBUG`, and `TINYXML_USE_STL`. Details (such that they are) are in the makefile.

In the `tinyxml` directory, type "make clean" then "make". The executable file 'xmltest' will be created.

### <h3>To Use in an Application:</h3>

Add `tinyxml.cpp`, `tinyxml.h`, `tinyxmlerror.cpp`, `tinyxmlparser.cpp`, `tinystr.cpp`, and `tinystr.h` to your project or make file. That's it! It should compile on any reasonably compliant C++ system. You do not need to enable exceptions or RTTI for TinyXML.

## <h2> How TinyXML works. </h2>

An example is probably the best way to go. Take:

```
@verbatim
<?xml version="1.0" standalone=no>
<!-- Our to do list data -->
<ToDo>
  <Item priority="1"> Go to the <bold>Toy store!</bold></Item>
  <Item priority="2"> Do bills</Item>
</ToDo>
@endverbatim
```

Its not much of a To Do list, but it will do. To read this file (say "demo.xml") you would create a document, and parse it in:

```
@verbatim
TiXmlDocument doc( "demo.xml" );
doc.LoadFile();
@endverbatim
```

And its ready to go. Now lets look at some lines and how they relate to the DOM.

```
@verbatim
<?xml version="1.0" standalone=no>
@endverbatim
```

The first line is a declaration, and gets turned into the TiXmlDeclaration class. It will be the first child of the document node.

This is the only directive/special tag parsed by TinyXML. Generally directive tags are stored in TiXmlUnknown so the commands wont be lost when it is saved back to disk.

```
@verbatim
<!-- Our to do list data -->
@endverbatim
```

A comment. Will become a TiXmlComment object.

```
@verbatim
<ToDo>
@endverbatim
```

The "ToDo" tag defines a TiXmlElement object. This one does not have any attributes, but does contain 2 other elements.

```
@verbatim
<Item priority="1">
```

@endverbatim

Creates another TiXmlElement which is a child of the "ToDo" element.  
This element has 1 attribute, with the name "priority" and the value "1".

@verbatim  
Go to the  
@endverbatim

A TiXmlText. This is a leaf node and cannot contain other nodes.  
It is a child of the "Item" TiXmlElement.

@verbatim  
<bold>  
@endverbatim

Another TiXmlElement, this one a child of the "Item" element.

Etc.

Looking at the entire object tree, you end up with:

@verbatim  
TiXmlDocument "demo.xml"  
TiXmlDeclaration "version='1.0'" "standalone=no"  
TiXmlComment " Our to do list data"  
TiXmlElement "ToDo"  
TiXmlElement "Item" Attributes: priority = 1  
TiXmlText "Go to the "  
TiXmlElement "bold"  
TiXmlText "Toy store!"  
TiXmlElement "Item" Attributes: priority=2  
TiXmlText "Do bills"  
@endverbatim

<h2> Documentation </h2>

The documentation is build with Doxygen, using the 'dox' configuration file.

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## <h2> References </h2>

The World Wide Web Consortium is the definitive standard body for XML, and their web pages contain huge amounts of information.

The definitive spec: <http://www.w3.org/TR/2004/REC-xml-20040204/>

I also recommend "XML Pocket Reference" by Robert Eckstein and published by O'Reilly...the book that got the whole thing started.

## <h2> Contributors, Contacts, and a Brief History </h2>

Thanks very much to everyone who sends suggestions, bugs, ideas, and encouragement. It all helps, and makes this project fun. A special thanks to the contributors on the web pages that keep it lively.

So many people have sent in bugs and ideas, that rather than list here we try to give credit due in the "changes.txt" file.

TinyXML was originally written by Lee Thomason. (Often the "I" still in the documentation.) Lee reviews changes and releases new versions, with the help of Yves Berquin, Andrew Ellerton, and the tinyXml community.

We appreciate your suggestions, and would love to know if you use TinyXML. Hopefully you will enjoy it and find it useful. Please post questions, comments, file bugs, or contact us at:

[www.sourceforge.net/projects/tinyxml](http://www.sourceforge.net/projects/tinyxml)

Lee Thomason, Yves Berquin, Andrew Ellerton

\*/

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[www.sourceforge.net/projects/tinyxml](http://www.sourceforge.net/projects/tinyxml)  
Original code by Lee Thomason ([www.grinninglizard.com](http://www.grinninglizard.com))

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\* /opt/cola/permits/1232784457\_1637846037.69/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinyxml.cpp

\* /opt/cola/permits/1232784457\_1637846037.69/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinyxml.h

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[www.sourceforge.net/projects/tinyxml](http://www.sourceforge.net/projects/tinyxml)

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Found in path(s):

\* /opt/cola/permits/1232784457\_1637846037.69/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinyxmlerror.cpp

## 1.16 json-cpp 1.9.5

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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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%% winjs version 4.4.0 (<https://github.com/winjs/winjs>)  
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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017
```

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

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## 1.21 libxml2 2.10.3

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## 1.22 protobuf 3.21.6

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\* Solaris 10 + Sun Studio fixes.  
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\* 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.

Michael Poole <mdpoole@troilus.org>

\* 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().

Kacper Kowalik <xarthisius.kk@gmail.com>

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

William Orr <will@worrbase.com>

\* Fixed detection of sched\_yield on Solaris.

\* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

\* Fixed minor IBM xLC compiler build issues

\* Added atomicops for AIX (POWER)

Nipunn Koorapati <nipunn1313@gmail.com>

\* Provide a type alias field ValueType on EnumTypeWrapper

\* Match service argument names to abstract interface

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## 1.24 libressl 3.4.2

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## 1.25 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:  
 \*\* <ul>  
 \*\* <li> [sqlite3\_hard\_heap\_limit64()]  
 \*\* <li> [sqlite3\_memory\_used()]  
 \*\* <li> [sqlite3\_memory\_highwater()]  
 \*\* <li> [sqlite3\_soft\_heap\_limit64()]  
 \*\* <li> [sqlite3\_status64()]  
 \*\* </ul>)^  
 \*\* ^Memory allocation statistics are enabled by default unless SQLite is  
 \*\* compiled with [SQLITE\_DEFAULT\_MEMSTATUS]=0 in which case memory  
 \*\* allocation statistics are disabled by default.  
 \*\* </dd>

\*\*

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

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

\*\* </dd>

\*\*

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

\*\* <dd> ^The SQLITE\_CONFIG\_PAGECACHE option specifies a memory pool

\*\* that SQLite can use for the database page cache with the default page

\*\* cache implementation.

\*\* This configuration option is a no-op if an application-defined page

\*\* cache implementation is loaded using the [SQLITE\_CONFIG\_PCACHE2].

\*\* ^There are three arguments to SQLITE\_CONFIG\_PAGECACHE: A pointer to

\*\* 8-byte aligned memory (pMem), the size of each page cache line (sz),

\*\* and the number of cache lines (N).

\*\* The sz argument should be the size of the largest database page

\*\* (a power of two between 512 and 65536) plus some extra bytes for each

\*\* page header. ^The number of extra bytes needed by the page header

\*\* can be determined using [SQLITE\_CONFIG\_PCACHE\_HDRSZ].

\*\* ^It is harmless, apart from the wasted memory,

\*\* for the sz parameter to be larger than necessary. The pMem

\*\* argument must be either a NULL pointer or a pointer to an 8-byte

\*\* aligned block of memory of at least sz\*N bytes, otherwise

\*\* subsequent behavior is undefined.

\*\* ^When pMem is not NULL, SQLite will strive to use the memory provided

\*\* to satisfy page cache needs, falling back to [sqlite3\_malloc()] if

\*\* a page cache line is larger than sz bytes or if all of the pMem buffer

\*\* is exhausted.

\*\* ^If pMem is NULL and N is non-zero, then each database connection

\*\* does an initial bulk allocation for page cache memory

\*\* from [sqlite3\_malloc()] sufficient for N cache lines if N is positive or

\*\* of -1024\*N bytes if N is negative. . ^If additional

\*\* page cache memory is needed beyond what is provided by the initial

\*\* allocation, then SQLite goes to [sqlite3\_malloc()] separately for each

\*\* additional cache line. </dd>

\*\*

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

\*\* <dd> ^The SQLITE\_CONFIG\_HEAP option specifies a static memory buffer

\*\* that SQLite will use for all of its dynamic memory allocation needs

\*\* beyond those provided for by [SQLITE\_CONFIG\_PAGECACHE].

\*\* ^The SQLITE\_CONFIG\_HEAP option is only available if SQLite is compiled

\*\* with either [SQLITE\_ENABLE\_MEMSYS3] or [SQLITE\_ENABLE\_MEMSYS5] and returns

\*\* [SQLITE\_ERROR] if invoked otherwise.

\*\* ^There are three arguments to SQLITE\_CONFIG\_HEAP:

\*\* An 8-byte aligned pointer to the memory,

\*\* the number of bytes in the memory buffer, and the minimum allocation size.

\*\* ^If the first pointer (the memory pointer) is NULL, then SQLite reverts

\*\* to using its default memory allocator (the system malloc() implementation),

\*\* undoing any prior invocation of [SQLITE\_CONFIG\_MALLOC]. ^If the

\*\* memory pointer is not NULL then the alternative memory  
 \*\* allocator is engaged to handle all of SQLites memory allocation needs.  
 \*\* The first pointer (the memory pointer) must be aligned to an 8-byte  
 \*\* boundary or subsequent behavior of SQLite will be undefined.  
 \*\* The minimum allocation size is capped at 2\*\*12. Reasonable values  
 \*\* for the minimum allocation size are 2\*\*5 through 2\*\*8.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MUTEX]] <dt>SQLITE\_CONFIG\_MUTEX</dt>  
 \*\* <dd> ^(The SQLITE\_CONFIG\_MUTEX option takes a single argument which is a  
 \*\* pointer to an instance of the [sqlite3\_mutex\_methods] structure.  
 \*\* The argument specifies alternative low-level mutex routines to be used  
 \*\* in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of  
 \*\* the content of the [sqlite3\_mutex\_methods] structure before the call to  
 \*\* [sqlite3\_config()] returns. ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* the entire mutexing subsystem is omitted from the build and hence calls to  
 \*\* [sqlite3\_config()] with the SQLITE\_CONFIG\_MUTEX configuration option will  
 \*\* return [SQLITE\_ERROR].</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_GETMUTEX]] <dt>SQLITE\_CONFIG\_GETMUTEX</dt>  
 \*\* <dd> ^(The SQLITE\_CONFIG\_GETMUTEX option takes a single argument which  
 \*\* is a pointer to an instance of the [sqlite3\_mutex\_methods] structure. The  
 \*\* [sqlite3\_mutex\_methods]  
 \*\* structure is filled with the currently defined mutex routines.)^  
 \*\* This option can be used to overload the default mutex allocation  
 \*\* routines with a wrapper used to track mutex usage for performance  
 \*\* profiling or testing, for example. ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* the entire mutexing subsystem is omitted from the build and hence calls to  
 \*\* [sqlite3\_config()] with the SQLITE\_CONFIG\_GETMUTEX configuration option will  
 \*\* return [SQLITE\_ERROR].</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_LOOKASIDE]] <dt>SQLITE\_CONFIG\_LOOKASIDE</dt>  
 \*\* <dd> ^(The SQLITE\_CONFIG\_LOOKASIDE option takes two arguments that determine  
 \*\* the default size of lookaside memory on each [database connection].  
 \*\* The first argument is the  
 \*\* size of each lookaside buffer slot and the second is the number of  
 \*\* slots allocated to each database connection.)^ ^(SQLITE\_CONFIG\_LOOKASIDE  
 \*\* sets the <i>default</i> lookaside size. The [SQLITE\_DBCONFIG\_LOOKASIDE]  
 \*\* option to [sqlite3\_db\_config()] can be used to change the lookaside  
 \*\* configuration on individual connections.)^ </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_PCACHE2]] <dt>SQLITE\_CONFIG\_PCACHE2</dt>  
 \*\* <dd> ^(The SQLITE\_CONFIG\_PCACHE2 option takes a single argument which is  
 \*\* a pointer to an [sqlite3\_pcache\_methods2] object. This object specifies  
 \*\* the interface to a custom page cache implementation.)^  
 \*\* ^SQLite makes a copy of the [sqlite3\_pcache\_methods2] object.</dd>  
 \*\*

**SQLITE\_CONFIG\_GETPCACHE2** `SQLITE_CONFIG_GETPCACHE2`  
 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.

**SQLITE\_CONFIG\_LOG** `SQLITE_CONFIG_LOG`  
 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.

**SQLITE\_CONFIG\_URI** `SQLITE_CONFIG_URI`  
 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** `SQLITE_CONFIG_COVERING_INDEX_SCAN`  
 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.
** </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:  
 \*\* <ul>  
 \*\* <li> [sqlite3\_hard\_heap\_limit64()]  
 \*\* <li> [sqlite3\_memory\_used()]  
 \*\* <li> [sqlite3\_memory\_highwater()]  
 \*\* <li> [sqlite3\_soft\_heap\_limit64()]  
 \*\* <li> [sqlite3\_status64()]  
 \*\* </ul>)^  
 \*\* ^Memory allocation statistics are enabled by default unless SQLite is  
 \*\* compiled with [SQLITE\_DEFAULT\_MEMSTATUS]=0 in which case memory  
 \*\* allocation statistics are disabled by default.  
 \*\* </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_SCRATCH]] <dt>SQLITE\_CONFIG\_SCRATCH</dt>  
 \*\* <dd> The SQLITE\_CONFIG\_SCRATCH option is no longer used.  
 \*\* </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_PAGECACHE]] <dt>SQLITE\_CONFIG\_PAGECACHE</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_PAGECACHE option specifies a memory pool  
 \*\* that SQLite can use for the database page cache with the default page  
 \*\* cache implementation.  
 \*\* This configuration option is a no-op if an application-defined page  
 \*\* cache implementation is loaded using the [SQLITE\_CONFIG\_PCACHE2].  
 \*\* ^There are three arguments to SQLITE\_CONFIG\_PAGECACHE: A pointer to  
 \*\* 8-byte aligned memory (pMem), the size of each page cache line (sz),  
 \*\* and the number of cache lines (N).  
 \*\* The sz argument should be the size of the largest database page  
 \*\* (a power of two between 512 and 65536) plus some extra bytes for each  
 \*\* page header. ^The number of extra bytes needed by the page header  
 \*\* can be determined using [SQLITE\_CONFIG\_PCACHE\_HDRSZ].

\*\* ^It is harmless, apart from the wasted memory,  
 \*\* for the sz parameter to be larger than necessary. The pMem  
 \*\* argument must be either a NULL pointer or a pointer to an 8-byte  
 \*\* aligned block of memory of at least sz\*N bytes, otherwise  
 \*\* subsequent behavior is undefined.  
 \*\* ^When pMem is not NULL, SQLite will strive to use the memory provided  
 \*\* to satisfy page cache needs, falling back to [sqlite3\_malloc()] if  
 \*\* a page cache line is larger than sz bytes or if all of the pMem buffer  
 \*\* is exhausted.  
 \*\* ^If pMem is NULL and N is non-zero, then each database connection  
 \*\* does an initial bulk allocation for page cache memory  
 \*\* from [sqlite3\_malloc()] sufficient for N cache lines if N is positive or  
 \*\* of -1024\*N bytes if N is negative. ^If additional  
 \*\* page cache memory is needed beyond what is provided by the initial  
 \*\* allocation, then SQLite goes to [sqlite3\_malloc()] separately for each  
 \*\* additional cache line. </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_HEAP]] <dt>SQLITE\_CONFIG\_HEAP</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_HEAP option specifies a static memory buffer  
 \*\* that SQLite will use for all of its dynamic memory allocation needs  
 \*\* beyond those provided for by [SQLITE\_CONFIG\_PAGECACHE].  
 \*\* ^The SQLITE\_CONFIG\_HEAP option is only available if SQLite is compiled  
 \*\* with either [SQLITE\_ENABLE\_MEMSYS3] or [SQLITE\_ENABLE\_MEMSYS5] and returns  
 \*\* [SQLITE\_ERROR] if invoked otherwise.  
 \*\* ^There are three arguments to SQLITE\_CONFIG\_HEAP:  
 \*\* An 8-byte aligned pointer to the memory,  
 \*\* the number of bytes in the memory buffer, and the minimum allocation size.  
 \*\* ^If the first pointer (the memory pointer) is NULL, then SQLite reverts  
 \*\* to using its default memory allocator (the system malloc() implementation),  
 \*\* undoing any prior invocation of [SQLITE\_CONFIG\_MALLOC]. ^If the  
 \*\* memory pointer is not NULL then the alternative memory  
 \*\* allocator is engaged to handle all of SQLites memory allocation needs.  
 \*\* The first pointer (the memory pointer) must be aligned to an 8-byte  
 \*\* boundary or subsequent behavior of SQLite will be undefined.  
 \*\* The minimum allocation size is capped at 2\*\*12. Reasonable values  
 \*\* for the minimum allocation size are 2\*\*5 through 2\*\*8.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MUTEX]] <dt>SQLITE\_CONFIG\_MUTEX</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_MUTEX option takes a single argument which is a  
 \*\* pointer to an instance of the [sqlite3\_mutex\_methods] structure.  
 \*\* The argument specifies alternative low-level mutex routines to be used  
 \*\* in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of  
 \*\* the content of the [sqlite3\_mutex\_methods] structure before the call to  
 \*\* [sqlite3\_config()] returns. ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* the entire mutexing subsystem is omitted from the build and hence calls to  
 \*\* [sqlite3\_config()] with the SQLITE\_CONFIG\_MUTEX configuration option will  
 \*\* return [SQLITE\_ERROR].</dd>

\*\*

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

\*\* <dd> ^(The SQLITE\_CONFIG\_GETMUTEX option takes a single argument which

\*\* is a pointer to an instance of the [sqlite3\_mutex\_methods] structure. The

\*\* [sqlite3\_mutex\_methods]

\*\* structure is filled with the currently defined mutex routines.)^

\*\* This option can be used to overload the default mutex allocation

\*\* routines with a wrapper used to track mutex usage for performance

\*\* profiling or testing, for example. ^If SQLite is compiled with

\*\* the [SQLITE\_THREADSafe | SQLITE\_THREADSafe=0] compile-time option then

\*\* the entire mutexing subsystem is omitted from the build and hence calls to

\*\* [sqlite3\_config()] with the SQLITE\_CONFIG\_GETMUTEX configuration option will

\*\* return [SQLITE\_ERROR].</dd>

\*\*

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

\*\* <dd> ^(The SQLITE\_CONFIG\_LOOKASIDE option takes two arguments that determine

\*\* the default size of lookaside memory on each [database connection].

\*\* The first argument is the

\*\* size of each lookaside buffer slot and the second is the number of

\*\* slots allocated to each database connection.)^ ^(SQLITE\_CONFIG\_LOOKASIDE

\*\* sets the <i>default</i> lookaside size. The [SQLITE\_DBCONFIG\_LOOKASIDE]

\*\* option to [sqlite3\_db\_config()] can be used to change the lookaside

\*\* configuration on individual connections.)^ </dd>

\*\*

\*\* [[SQLITE\_CONFIG\_PCACHE2]] <dt>SQLITE\_CONFIG\_PCACHE2</dt>

\*\* <dd> ^(The SQLITE\_CONFIG\_PCACHE2 option takes a single argument which is

\*\* a pointer to an [sqlite3\_pcache\_methods2] object. This object specifies

\*\* the interface to a custom page cache implementation.)^

\*\* ^SQLite makes a copy of the [sqlite3\_pcache\_methods2] object.</dd>

\*\*

\*\* [[SQLITE\_CONFIG\_GETPCACHE2]] <dt>SQLITE\_CONFIG\_GETPCACHE2</dt>

\*\* <dd> ^(The SQLITE\_CONFIG\_GETPCACHE2 option takes a single argument which

\*\* is a pointer to an [sqlite3\_pcache\_methods2] object. SQLite copies of

\*\* the current page cache implementation into that object.)^ </dd>

\*\*

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

\*\* <dd> The SQLITE\_CONFIG\_LOG option is used to configure the SQLite

\*\* global [error log].

\*\* (^The SQLITE\_CONFIG\_LOG option takes two arguments: a pointer to a

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

\*\* and a pointer to void. ^If the function pointer is not NULL, it is

\*\* invoked by [sqlite3\_log()] to process each logging event. ^If the

\*\* function pointer is NULL, the [sqlite3\_log()] interface becomes a no-op.

\*\* ^The void pointer that is the second argument to SQLITE\_CONFIG\_LOG is

\*\* passed through as the first parameter to the application-defined logger

\*\* function whenever that function is invoked. ^The second parameter to

\*\* the logger function is a copy of the first parameter to the corresponding

\*\* [sqlite3\_log()] call and is intended to be a [result code] or an

\*\* [extended result code]. ^The third parameter passed to the logger is  
 \*\* log message after formatting via [sqlite3\_snprintf()].  
 \*\* The SQLite logging interface is not reentrant; the logger function  
 \*\* supplied by the application must not invoke any SQLite interface.  
 \*\* In a multi-threaded application, the application-defined logger  
 \*\* function must be threadsafe. </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_URI]] <dt>SQLITE\_CONFIG\_URI  
 \*\* <dd>^(The SQLITE\_CONFIG\_URI option takes a single argument of type int.  
 \*\* If non-zero, then URI handling is globally enabled. If the parameter is zero,  
 \*\* then URI handling is globally disabled.)^ ^If URI handling is globally  
 \*\* enabled, all filenames passed to [sqlite3\_open()], [sqlite3\_open\_v2()],  
 \*\* [sqlite3\_open16()] or  
 \*\* specified as part of [ATTACH] commands are interpreted as URIs, regardless  
 \*\* of whether or not the [SQLITE\_OPEN\_URI] flag is set when the database  
 \*\* connection is opened. ^If it is globally disabled, filenames are  
 \*\* only interpreted as URIs if the SQLITE\_OPEN\_URI flag is set when the  
 \*\* database connection is opened. ^By default, URI handling is globally  
 \*\* disabled. The default value may be changed by compiling with the  
 \*\* [SQLITE\_USE\_URI] symbol defined.)^  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_COVERING\_INDEX\_SCAN]] <dt>SQLITE\_CONFIG\_COVERING\_INDEX\_SCAN  
 \*\* <dd>^The SQLITE\_CONFIG\_COVERING\_INDEX\_SCAN option takes a single integer  
 \*\* argument which is interpreted as a boolean in order to enable or disable  
 \*\* the use of covering indices for full table scans in the query optimizer.  
 \*\* ^The default setting is determined  
 \*\* by the [SQLITE\_ALLOW\_COVERING\_INDEX\_SCAN] compile-time option, or is "on"  
 \*\* if that compile-time option is omitted.  
 \*\* The ability to disable the use of covering indices for full table scans  
 \*\* is because some incorrectly coded legacy applications might malfunction  
 \*\* when the optimization is enabled. Providing the ability to  
 \*\* disable the optimization allows the older, buggy application code to work  
 \*\* without change even with newer versions of SQLite.  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_PCACHE]] [[SQLITE\_CONFIG\_GETPCACHE]]  
 \*\* <dt>SQLITE\_CONFIG\_PCACHE and SQLITE\_CONFIG\_GETPCACHE  
 \*\* <dd> These options are obsolete and should not be used by new code.  
 \*\* They are retained for backwards compatibility but are now no-ops.  
 \*\* </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_SQLLOG]]  
 \*\* <dt>SQLITE\_CONFIG\_SQLLOG  
 \*\* <dd>This option is only available if sqlite is compiled with the  
 \*\* [SQLITE\_ENABLE\_SQLLOG] pre-processor macro defined. The first argument should  
 \*\* be a pointer to a function of type void(\*)(void\*,sqlite3\*,const char\*, int).  
 \*\* The second should be of type (void\*). The callback is invoked by the library  
 \*\* in three separate circumstances, identified by the value passed as the  
 \*\* fourth parameter. If the fourth parameter is 0, then the database connection

\*\* passed as the second argument has just been opened. The third argument  
 \*\* points to a buffer containing the name of the main database file. If the  
 \*\* fourth parameter is 1, then the SQL statement that the third parameter  
 \*\* points to has just been executed. Or, if the fourth parameter is 2, then  
 \*\* the connection being passed as the second parameter is being closed. The  
 \*\* third parameter is passed NULL In this case. An example of using this  
 \*\* configuration option can be seen in the "test\_sqllog.c" source file in  
 \*\* the canonical SQLite source tree.</dd>

\*\*  
 \*\* [[SQLITE\_CONFIG\_MMAP\_SIZE]]  
 \*\* <dt>SQLITE\_CONFIG\_MMAP\_SIZE  
 \*\* <dd>^SQLITE\_CONFIG\_MMAP\_SIZE takes two 64-bit integer (sqlite3\_int64) values  
 \*\* that are the default mmap size limit (the default setting for  
 \*\* [PRAGMA mmap\_size]) and the maximum allowed mmap size limit.  
 \*\* ^The default setting can be overridden by each database connection using  
 \*\* either the [PRAGMA mmap\_size] command, or by using the  
 \*\* [SQLITE\_FCNTL\_MMAP\_SIZE] file control. ^(The maximum allowed mmap size  
 \*\* will be silently truncated if necessary so that it does not exceed the  
 \*\* compile-time maximum mmap size set by the  
 \*\* [SQLITE\_MAX\_MMAP\_SIZE] compile-time option.)^  
 \*\* ^If either argument to this option is negative, then that argument is  
 \*\* changed to its compile-time default.

\*\*  
 \*\* [[SQLITE\_CONFIG\_WIN32\_HEAPSIZE]]  
 \*\* <dt>SQLITE\_CONFIG\_WIN32\_HEAPSIZE  
 \*\* <dd>^The SQLITE\_CONFIG\_WIN32\_HEAPSIZE option is only available if SQLite is  
 \*\* compiled for Windows with the [SQLITE\_WIN32\_MALLOC] pre-processor macro  
 \*\* defined. ^SQLITE\_CONFIG\_WIN32\_HEAPSIZE takes a 32-bit unsigned integer value  
 \*\* that specifies the maximum size of the created heap.

\*\*  
 \*\* [[SQLITE\_CONFIG\_PCACHE\_HDRSZ]]  
 \*\* <dt>SQLITE\_CONFIG\_PCACHE\_HDRSZ  
 \*\* <dd>^The SQLITE\_CONFIG\_PCACHE\_HDRSZ option takes a single parameter which  
 \*\* is a pointer to an integer and writes into that integer the number of extra  
 \*\* bytes per page required for each page in [SQLITE\_CONFIG\_PAGECACHE].  
 \*\* The amount of extra space required can change depending on the compiler,  
 \*\* target platform, and SQLite version.

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





```

**
** 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 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

```

## 1.26 libpcap 1.05

### 1.26.1 Available under license :

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```

/*
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*
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```

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\*/

Found in path(s):

\* /opt/cola/permits/1557375493\_1677774279.2218926/0/2b1be0a8976ecd1cd27d7c3d01af9a8d736344f8-  
zip/include/pcap.h

\* /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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\* SUCH DAMAGE.  
\*  
\* @(#)bpf.h 7.1 (Berkeley) 5/7/91  
\*/

Found in path(s):

\* /opt/cola/permits/1557375493\_1677774279.2218926/0/2b1be0a8976ecd1cd27d7c3d01af9a8d736344f8-  
zip/include/pcap/bpf.h

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/\*-

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zip/include/pcap/ipnet.h

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\* bluetooth data struct

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

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## 1.31 grpc 1.52.1

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Version 2, June 1991

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```

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```
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```

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

Ty Coon, President of Vice

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## 1.35 libxml2 2.11.4

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# 1.36 visual-studio-runtime 14.36.32532.0

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*
* @(#)bpf.h 7.1 (Berkeley) 5/7/91
*/

```

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```

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zip/include/pcap/bpf.h

```

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

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

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

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

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

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

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rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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## 1.39 curl 8.2.0

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