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Text Part Number: 78EE117C99-1767702623

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Tests included here are based on build output generated by the six-speed benchmark suite.

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

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

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

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

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |

2.2 and above 2.1.1 2001-now PSF yes

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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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1.5 icu 67

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## Commands to generate dependency files
```

```

GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*/g" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"

```

```
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \  
| sed \"s^\($*\)\.o[ :]*^/1.o $@ : /g\" > $@; \  
[ -s $@ ] || rm -f $@'
```

Versioned libraries rules

```
%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)  
$(RM) $@ && ln -s ${<F} $@  
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)  
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@
```

Bind internal references

```
# LDflags that pkgdata will use  
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
# Dependencies [i.e. map files] for the final library  
BIR_DEPS=
```

```
## Remove shared library 's'  
STATIC_PREFIX_WHEN_USED =  
STATIC_PREFIX =
```

End BSD-specific setup

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User documentation:

install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
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*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt How to use the JPEG library in your own programs.
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filelist.txt Road map of IJG files.
coderrules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

=====

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

REFERENCES

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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/Wallace.JPEG.pdf>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.

IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from <http://www.itu.int/rec/T-REC-T.871>. A PDF file of the older JFIF document is available at <http://www.w3.org/Graphics/JPEG/jfif3.pdf>.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <http://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as <http://www.ijg.org/files/jpegsr.v9c.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr9c.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

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ACKNOWLEDGMENTS

=====

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijg.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS

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The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification. Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.

The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.

We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.

Don't use an obsolete code base!

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IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO

=====

Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec.

More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

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

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* jdct.h

*

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*

* This include file contains common declarations for the forward and

* inverse DCT modules. These declarations are private to the DCT managers

* (jcdctmgr.c, jdctmgr.c) and the individual DCT algorithms.

* The individual DCT algorithms are kept in separate files to ease

* machine-dependent tuning (e.g., assembly coding).

*/

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* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jdct.h

1.8 json-cpp 1.8.4

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Little CMS

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1.12 libusb 1.0.23

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1.13 libvpx 1.8.2

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1.14 pcre 8.43

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THE BASIC LIBRARY FUNCTIONS

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1.15 gstreamer 0.10.30.1

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<signature of Ty Coon>, 1 April 1990
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1.16 protobuf 3.7.1

1.17 tidy 5.7.16

1.17.1 Available under license :

HTML Tidy

HTML parser and pretty printer

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1.18 libsrtp 2.2.0

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1.19 speexdsp 1.2.0

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1.20 blink 1.4

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Tests that when a position is available, no callbacks are invoked until permission is denied.

On success, you will see a series of "PASS" messages, followed by "TEST COMPLETE".

```
PASS error.code is error.PERMISSION_DENIED
```

```
PASS error.message is "User denied Geolocation"
```

```
PASS successfullyParsed is true
```

```
TEST COMPLETE
```

```
EDITING DELEGATE: webViewDidChangeSelection:WebViewDidChangeSelectionNotification
```

```
EDITING DELEGATE: webViewDidChangeSelection:WebViewDidChangeSelectionNotification
```

```
EDITING DELEGATE: webViewDidChangeSelection:WebViewDidChangeSelectionNotification
```

```
EDITING DELEGATE: webViewDidChangeSelection:WebViewDidChangeSelectionNotification
```

This tests the endpoints of a DOM Range object made from a selection around certain types elements. These

TEST COMPLETE

PASS result is "default"

PASS result is "granted"

This is a copy of CONTRIBUTORS file for the Pthreads-win32 library, downloaded from <http://sourceware.org/cgi-bin/cvsweb.cgi/~checkout~/pthreads/CONTRIBUTORS?rev=1.32&cvsroot=pthreads-win32>

Included here to compliment the Pthreads-win32 license header in wtf/ThreadingWin.cpp file. WebKit is using derived sources of ThreadCondition code from Pthreads-win32.

Contributors (in approximate order of appearance)

[See also the ChangeLog file where individuals are attributed in log entries. Likewise in the FAQ file.]

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- Initiated the project;
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- early prototype routines.

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- early prototype routines;
- ongoing project coordination/maintenance;
- implementation of spin locks and barriers;
- various enhancements;
- bug fixes;
- documentation;
- testsuite.

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- Early bug fixes.

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- Contributed substantial original working implementation;
- bug fixes;
- ongoing guidance and standards interpretation.

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- early bug fixes to condition variables.

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- Bug fix.

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Bug fixes.

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Bug fix.

Arthur Kantor akantor at bexusa dot com
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Steven Reddie smr at essemmer dot com dot au
Bug fix.

Alexander Terekhov TEREKHOV at de dot ibm dot com
Re-implemented and improved read-write locks;
(with Louis Thomas) re-implemented and improved
condition variables;
enhancements to semaphores;
enhancements to mutexes;
new mutex implementation in 'futex' style;
suggested a robust implementation of pthread_once
similar to that implemented by V.Kliathcko;
system clock change handling re CV timeouts;
bug fixes.

Thomas Pfaff tpfaff at gmx dot net

Changes to make C version usable with C++ applications;
re-implemented mutex routines to avoid Win32 mutexes
and TryEnterCriticalSection;
procedure to fix Mingw32 thread-safety issues.

Franco Bez franco dot bez at gmx dot de
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Louis Thomas lthomas at arbitrade dot com
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David Korn dgk at research dot att dot com
Ported to UWIN.

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Bug fix.

Ralf Brese Ralf dot Brese at pdb4 dot siemens dot de
Bug fix.

prionx at junodotcom prionx at junodotcom
Bug fixes.

Max Woodbury mtew at cds dot duke dot edu
POSIX versioning conditionals;
reduced namespace pollution;
idea to separate routines to reduce statically
linked image sizes.

Rob Fanner rfanner at stonethree dot com
Bug fix.

Michael Johnson michaelj at maine dot rr dot com
Bug fix.

Nicolas Barry boozai at yahoo dot com
Bug fixes.

Piet van Bruggen pietvb at newbridges dot nl
Bug fix.

Makoto Kato raven at oldskool dot jp
AMD64 port.

Panagiotis E. Hadjidoukas peh at hpclab dot ceid dot upatras dot gr
Contributed the QueueUserAPCEx package which
makes preemptive async cancelation possible.

Will Bryant will dot bryant at ecosm dot com
Borland compiler patch and makefile.

Anuj Goyal anuj dot goyal at gmail dot com
Port to Digital Mars compiler.

Gottlob Frege gottlobfrege at gmail dot com
re-implemented pthread_once (version 2)
(pthread_once cancellation added by rpj).

Vladimir Kliatchko vladimir at kliatchko dot com
reimplemented pthread_once with the same form
as described by A.Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.

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<!DOCTYPE html

```

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</html>

PASS: first plugin loaded
Written in 2013 by Simon Sapin.

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Tests that reentrant calls to Geolocation methods from the error callback due to a PERMISSION_DENIED error are OK.

On success, you will see a series of "PASS" messages, followed by "TEST COMPLETE".

PASS error.code is error.PERMISSION_DENIED

PASS error.message is "User denied Geolocation"

PASS error.code is error.PERMISSION_DENIED

PASS error.message is "User denied Geolocation"

PASS successfullyParsed is true

TEST COMPLETE

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Tests that when Geolocation permission has been denied prior to a call to a Geolocation method, the error callback is invoked with code PERMISSION_DENIED, when the Geolocation service has a good position.

On success, you will see a series of "PASS" messages, followed by "TEST COMPLETE".

PASS error.code is error.PERMISSION_DENIED

PASS error.message is "User denied Geolocation"

PASS error.code is error.PERMISSION_DENIED

PASS error.message is "User denied Geolocation"

PASS successfullyParsed is true

TEST COMPLETE

PngSuite

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```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!DOCTYPE html
```

```
  PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
```

```
  "xhtml1-strict.dtd">
```

```
<html xmlns='http://www.w3.org/1999/xhtml'>
```

```
<head>
```

```
  <title>W3C IPR SOFTWARE NOTICE</title>
```

```
</head>
```

```
<body>
```

```
  <h1>
```

```
    W3C IPR SOFTWARE NOTICE
```

```
  </h1>
```

```
  <h3>
```

```
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```

```
  </h3>
```

```
<p>
```

```
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```

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```
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```
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under certain conditions; type `show c' for details.
```

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necessary. Here is a sample; alter the names:

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

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

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consider it more useful to permit linking proprietary applications with the
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Public License instead of this License.

```
This test verifies that all access to localStorage can be blocked
Length is 0
Value for FOO is null
Length is 1
Value for FOO is BAR
```

Key for index 0 is FOO

Disabling localStorage access.

Caught exception trying to get frame localStorage: SecurityError: Failed to read the 'localStorage' property from 'Window': Access is denied for this document.

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Tests that when multiple requests are waiting for permission, no callbacks are invoked until permission is allowed.

On success, you will see a series of "PASS" messages, followed by "TEST COMPLETE".

```
PASS Success callback invoked
PASS Success callback invoked
PASS successfullyParsed is true
```

TEST COMPLETE

```
frame "<!--framePath //<!--frame0-->-->" - has 1 onunload handler(s)
```

Tests that when a request is made on a Geolocation object, permission is denied and its Frame is disconnected before a callback is made, no callbacks are made.

On success, you will see a series of "PASS" messages, followed by "TEST COMPLETE".

```
PASS error.code is error.PERMISSION_DENIED
PASS error.message is "User denied Geolocation"
```

```
PASS No callbacks invoked
PASS successfullyParsed is true
```

TEST COMPLETE

```
Copyright (C) 2014 by Marijn Haverbeke <marijnh@gmail.com> and others
```

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Detaching a frame should bypass its cached permission client state in StorageAreaProxy.

On success, you will see a series of "PASS" messages, followed by "TEST COMPLETE".

PASS storage.length threw exception SecurityError: Failed to read the 'length' property from 'Storage': access is denied for this document..

PASS storage.getItem('foo') threw exception SecurityError: Failed to execute 'getItem' on 'Storage': access is denied for this document..

PASS storage.setItem('foo', 'bar') threw exception SecurityError: Failed to execute 'setItem' on 'Storage': access is denied for this document..

PASS storage.key(0) threw exception SecurityError: Failed to execute 'key' on 'Storage': access is denied for this document..

PASS storage.clear() threw exception SecurityError: Failed to execute 'clear' on 'Storage': access is denied for this document..

PASS successfullyParsed is true

TEST COMPLETE

Tests that the return values of Notification.permission match the permission request status.

PASS Notification.permission is "default"

PASS Notification.permission is "denied"

PASS Notification.permission is "granted"

PASS successfullyParsed is true

TEST COMPLETE

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Version 2, June 1991

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```

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Version 1.1 - 26 February 2007
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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html
  PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
  "xhtml1-strict.dtd">
<html xmlns='http://www.w3.org/1999/xhtml'>
  <head>
    <title>W3C IPR SOFTWARE NOTICE</title>
  </head>
  <body>
    <h1>
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    </h1>
    <h3>
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    </p>
```

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PASS: Navigation relative to base element.

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*

Tests that the Notification.permission static property exists.

PASS window.Notification is defined.

PASS window.Notification.permission is defined.

PASS successfullyParsed is true

TEST COMPLETE

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Tests that the <iframe sandbox> attribute influences whether notification permissions will be inherit by an iframe.

Normal iframe. Should inherit permissions.

Sandboxed iframe with allow-same-origin. Should inherit permissions.

Sandboxed iframe without allow-same-origin. Should not inherit permissions.

```
-----  
Frame: '<!--framePath //<!--frame0-->-->'
```

```
-----  
granted
```

```
-----  
Frame: '<!--framePath //<!--frame1-->-->'
```

```
-----  
granted
```

```
-----  
Frame: '<!--framePath //<!--frame2-->-->'
```

```
-----  
default
```

Tests that when a page is reloaded, the frame is properly detached from the Geolocation object to ensure that no permission requests are in progress.

On success, you will see a series of "PASS" messages, followed by "TEST COMPLETE".

```
PASS numPendingRequests is 0
```

```
PASS successfullyParsed is true
```

```
TEST COMPLETE
```

This test copies and pastes content inside a body with background and text-decoration properties. WebKit should not nest body.

```
| "  
| "  
| <ul>  
| "  
| "  
| <li>  
| "hello, world "  
| <a>  
| href="http://www.webkit.org/"  
| "WebKit"
```

```
| "  
"  
| <li>  
| "Copied content"  
| <li>  
| "hello, world"  
| <a>  
| href="http://www.webkit.org/"  
| "WebKit"  
| <li>  
| "Copied content<#selection-caret>"  
| "  
"  
| "  
"  
| "  
"
```

Tests that when Geolocation permission has been denied prior to a call to a Geolocation method, the error callback is invoked with code `PERMISSION_DENIED`, when the Geolocation service encounters an error.

On success, you will see a series of "PASS" messages, followed by "TEST COMPLETE".

```
PASS error.code is error.PERMISSION_DENIED  
PASS error.message is "User denied Geolocation"
```

```
PASS error.code is error.PERMISSION_DENIED  
PASS error.message is "User denied Geolocation"  
PASS successfullyParsed is true
```

TEST COMPLETE

Tests Geolocation when permission is denied, using the mock service.

On success, you will see a series of "PASS" messages, followed by "TEST COMPLETE".

```
PASS error.code is error.PERMISSION_DENIED  
PASS error.message is "User denied Geolocation"  
PASS successfullyParsed is true
```

TEST COMPLETE

DESKTOP NOTIFICATION SHOWN: Hello, world!

Tests that notifications can be displayed when permission has been granted. The text "notification.onshow fired" should be displayed. When running this test manually, accept the permission request.

```
PASS successfullyParsed is true
```

TEST COMPLETE

notification.onshow fired.

Tests that when Geolocation permission is denied, watches are stopped, as well as one-shots.

On success, you will see a series of "PASS" messages, followed by "TEST COMPLETE".

PASS error.code is error.PERMISSION_DENIED

PASS error.message is "User denied Geolocation"

PASS successfullyParsed is true

TEST COMPLETE

Tests that when multiple requests are waiting for permission, no callbacks are invoked until permission is denied.

On success, you will see a series of "PASS" messages, followed by "TEST COMPLETE".

PASS error.code is error.PERMISSION_DENIED

PASS error.message is "User denied Geolocation"

PASS error.code is error.PERMISSION_DENIED

PASS error.message is "User denied Geolocation"

PASS successfullyParsed is true

TEST COMPLETE

Test if sysex permission request is handled.

On success, you will see a series of "PASS" messages, followed by "TEST COMPLETE".

PASS testRunner.setMIDISysexPermission is defined.

PASS navigator.requestMIDIAccess is defined.

PASS promise is defined.

PASS promise.then is defined.

PASS sysex permission request is successfully rejected.

PASS promise is defined.

PASS promise.then is defined.

PASS sysex permission request is successfully accepted.

PASS access is defined.

PASS access.sysexEnabled is defined.

PASS access.sysexEnabled is true

PASS all permission request rests pass successfully.

PASS successfullyParsed is true

TEST COMPLETE

Tests that notifications will not be displayed when no permission has been granted. The text "notification.onerror fired" should be displayed below.

PASS successfullyParsed is true

TEST COMPLETE

notification.onerror fired.

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!DOCTYPE html
```

```
  PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
```

```
  "xhtml1-strict.dtd">
```

```
<html xmlns='http://www.w3.org/1999/xhtml'>
```

```
<head>
```

```
  <title>W3C IPR SOFTWARE NOTICE</title>
```

```
</head>
```

```
<body>
```

```
  <h1>
```

```
    W3C IPR SOFTWARE NOTICE
```

```
  </h1>
```

```
  <h3>
```

```
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```

```
  </h3>
```

```
<p>
```

```
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  Suites; in the case of the Java language binding, the package  
  names can no longer be in the 'org.w3c' package.
```

```
</p>
```

```
<p>
```

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  and License could be found at <a
```

```
  href='http://www.w3.org/Consortium/Legal/copyright-software-  
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```

```
</p>
```

```
<h3>
```

```
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```

```
</h3>
```

```
<p>
```

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```


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  <title>W3C IPR SOFTWARE NOTICE</title>
<style type="text/css">
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html, body { background: #fff; color: #000; } /* body for Windows IE3 */
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1.22 zlib 1.2.3

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   version 1.2.11, January 15th, 2017
```

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1.23 kerberos 1.18.2

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c

lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/ipropr_hdr.h
kadmin/server/ipropr_svc.c
lib/kdb/ipropr.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.27 rapidxml 1.13

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1.28 udt 1.0.3

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1.29 boost 1.65.1

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1.30 kerberos 1.18

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
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lib/libgss/g_export_name.c
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c

lib/kdb/iprof.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
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1.31 angle 1.0

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1.32 safestring 1.2.0

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/*

SafeString from char* constructor

Examples of how to create SafeStrings from an existing pointer to a char[]

also see the SafeString_ConstructorAndDebugging, SafeStringFromArray and

SafeStringFromCharPtrWithSize examples

by Matthew Ford
Mods Copyright(c)2020 Forward Computing and Control Pty. Ltd.
Modified from String Examples by Tom Igoe
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www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html

*/

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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-

zip/SafeString/examples/SafeString_Tests/SafeStringFromCharPtr/SafeStringFromCharPtr.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString_Tests/SafeStringFromCharPtr/SafeStringFromCharPtr.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeStringFromCharPtr/SafeStringFromCharPtr.ino

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/*

SafeString constructors and assignments

Examples of how to create SafeStrings and how to assign SafeStrings from other data types

also see the SafeStringFromArray, SafeStringFromCharPtr and SafeStringFromCharPtrWithSize examples

by Matthew Ford
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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeString_ConstructorAndDebugging/SafeString_ConstructorAndDebugging.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeString_ConstructorAndDebugging/SafeString_ConstructorAndDebugging.ino

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/*

Appending to SafeStrings using the += operator and concat()
Examples of how to append different data types to SafeStrings
Also has examples of using hasError() method

by Matthew Ford

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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeStringAssignmentAndConcatOperator/SafeStringAssignmentAndConcatOperator.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeStringAssignmentAndConcatOperator/SafeStringAssignmentAndConcatOperator.ino

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/*

SafeString.cpp V2.0.0 static memory SafeString library modified by
Matthew Ford

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extensively modified from

WString.cpp - SafeString library for Wiring & Arduino

...mostly rewritten by Paul Stoffregen...

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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/src/SafeString.cpp

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/*

Prefixing to SafeStrings using the -= operator and prefix()

Examples of how to prefix different data types to SafeStrings

by Matthew Ford

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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString_Tests/SafeStringPrefixOperator/SafeStringPrefixOperator.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-

zip/SafeString/examples/SafeString_Tests/SafeStringPrefixOperator/SafeStringPrefixOperator.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-

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SafeSting length(), trim()

by Matthew Ford

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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeStringLengthTrim/SafeStringLengthTrim.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString_Tests/SafeStringLengthTrim/SafeStringLengthTrim.ino
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```

/*

SafeString removeFrom(), removeBefore(), remove(), removeLast(), keepLast()
Examples of SafeString remove

by Matthew Ford

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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString_Tests/SafeStringRemove/SafeStringRemove.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeStringRemove/SafeStringRemove.ino
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SSring indexOf() and lastIndexOf()

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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-
```

zip/SafeString/examples/SafeString_Tests/SafeStringIndexOf/SafeStringIndexOf.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-
zip/SafeString/examples/SafeString_Tests/SafeStringIndexOf/SafeStringIndexOf.ino
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/*

Tokenizing SafeStrings and converting to numbers
Examples of how to use the nextToken() and toLong() and toDouble() to parse a CSV line

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zip/SafeString/examples/SafeString_Tests/SafeString_nextToken/SafeString_nextToken.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-
zip/SafeString/examples/SafeString_Tests/SafeString_nextToken/SafeString_nextToken.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString_Tests/SafeString_nextToken/SafeString_nextToken.ino
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/*

SafeString from char[] constructor
Examples of how to create SafeStrings from an existing char[]
also see the SafeString_ConstructorAndDebugging, SafeStringFromCharPtr and SafeStringFromCharPtrWithSize examples

by Matthew Ford
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zip/SafeString/examples/SafeString_Tests/SafeStringFromCharArray/SafeStringFromCharArray.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-

master/examples/SafeString_Tests/SafeStringFromArray/SafeStringFromArray.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
master/PlatformIO/safestringio-
zip/SafeString/examples/SafeString_Tests/SafeStringFromArray/SafeStringFromArray.ino
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/*

Fixed 9 Formatting of double/float/long/ing

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master/PlatformIO/safestringio-
zip/SafeString/examples/SafeString_Tests/SafeString_fixedWidthFormat/SafeString_fixedWidthFormat.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
master/PlatformIO/safestringio-namespace-
zip/SafeString/examples/SafeString_Tests/SafeString_fixedWidthFormat/SafeString_fixedWidthFormat.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
master/examples/SafeString_Tests/SafeString_fixedWidthFormat/SafeString_fixedWidthFormat.ino
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/*

SafeString substring()

Examples of SafeString substring

by Matthew Ford

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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
master/examples/SafeString_Tests/SafeStringSubstring/SafeStringSubstring.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
master/PlatformIO/safestringio-
zip/SafeString/examples/SafeString_Tests/SafeStringSubstring/SafeStringSubstring.ino

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```
/* SafeStringWithArraysOfCstrings.ino
   Example of using SafeString for working with char[][xx]
```

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download and install the SafeString library from Arduino library manager
or from www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html
*/

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```
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
master/PlatformIO/safestringio-
zip/SafeString/examples/SafeStringWithArraysOfCstrings/SafeStringWithArraysOfCstrings.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
master/examples/SafeStringWithArraysOfCstrings/SafeStringWithArraysOfCstrings.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
master/PlatformIO/safestringio-namespace-
zip/SafeString/examples/SafeStringWithArraysOfCstrings/SafeStringWithArraysOfCstrings.ino
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```

```
/*
   SafeString from char* with specified size constructor
   Examples of how to create SafeStrings from an existing pointer to a char[]
   also see the SafeString_ConstructorAndDebugging, SafeStringFromCharArray and SafeStringFromCharPtr
   examples
```

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master/PlatformIO/safestringio-
zip/SafeString/examples/SafeString_Tests/SafeStringFromCharPtrWithSize/SafeStringFromCharPtrWithSize.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
master/PlatformIO/safestringio-namespace-
zip/SafeString/examples/SafeString_Tests/SafeStringFromCharPtrWithSize/SafeStringFromCharPtrWithSize.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
master/examples/SafeString_Tests/SafeStringFromCharPtrWithSize/SafeStringFromCharPtrWithSize.ino
```


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/*

SafeString Case changes
Examples of how to change the case of a SafeString

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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeStringCaseChanges/SafeStringCaseChanges.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString_Tests/SafeStringCaseChanges/SafeStringCaseChanges.ino

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/*

SafeString startsWith(), startsWithIgnoreCase(), endsWithCharFrom() and endsWith()

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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString_Tests/SafeStringStartsWithEndsWith/SafeStringStartsWithEndsWith.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeStringStartsWithEndsWith/SafeStringStartsWithEndsWith.ino

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/*

Appending to SafeStrings using print()/println()

Examples of how to use the standard print()/println() to append and format different data types to SafeStrings

by Matthew Ford

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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString_Tests/SafeStringPrint/SafeStringPrint.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeStringPrint/SafeStringPrint.ino

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Test Errors for Assignment to SafeStrings using the = operator

by Matthew Ford

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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString_Tests/SafeStringEquAssignErrTests/SafeStringEquAssignErrTests.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/examples/SafeString_Tests/SafeStringEquAssignErrTests/SafeStringEquAssignErrTests.ino

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/*

SafeString to Number conversion

Examples of SafeString to Number conversions and comparing these to the results from String methods

by Matthew Ford

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*/

Found in path(s):

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-

zip/SafeString/examples/SafeString_Tests/SafeStringToNum/SafeStringToNum.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString_Tests/SafeStringToNum/SafeStringToNum.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/examples/SafeString_Tests/SafeStringToNum/SafeStringToNum.ino

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/*

SafeString replace()

Examples of SafeString replace for chars and strings

by Matthew Ford

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www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html

*/

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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/examples/SafeString_Tests/SafeStringReplace/SafeStringReplace.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString_Tests/SafeStringReplace/SafeStringReplace.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeStringReplace/SafeStringReplace.ino

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/*

sfStream.ino

SafeStringStream Unit test

Example of using SafeStringStream

by Matthew Ford

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https://www.forward.com.au/pfod/ArduinoProgramming/Serial_IO/index.html

*/

Found in path(s):

```
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/examples/SafeStringStream_Tests/sfStream/sfStream.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeStringStream_Tests/sfStream/sfStream.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeStringStream_Tests/sfStream/sfStream.ino
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```

/*

SafeString charAt() and setCharAt()

Examples of how to get and set characters of a SafeString

by Matthew Ford

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Modified from String Examples by Tom Igoe

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www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html

*/

Found in path(s):

```
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/examples/SafeString_Tests/SafeStringCharacters/SafeStringCharacters.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString_Tests/SafeStringCharacters/SafeStringCharacters.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeStringCharacters/SafeStringCharacters.ino
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```

/*

SafeString readUntil, non-blocking until delimiter found

Example of how to use the non-blocking readUntil() method to parse a CSV line

by Matthew Ford

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www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html

*/

Found in path(s):

```
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString_Tests/SafeString_readUntil/SafeString_readUntil.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-
```

zip/SafeString/examples/SafeString_Tests/SafeString_readUntil/SafeString_readUntil.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-
zip/SafeString/examples/SafeString_Tests/SafeString_readUntil/SafeString_readUntil.ino
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/*

Blink

Turns an led on for one second, then off for one second, repeatedly.

Most Arduinos have an on-board led you can control. On the UNO, MEGA and ZERO it is attached to digital pin 13, on MKR1000 on pin 6. led is set to the correct led pin independent of which board is used.

If you want to know what pin the on-board led is connected to on your Arduino model, check the Technical Specs of your board at:

<https://www.arduino.cc/en/Main/Products>

modified 8 May 2014

by Scott Fitzgerald

modified 2 Sep 2016

by Arturo Guadalupi

modified 8 Sep 2016

by Colby Newman

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<http://www.arduino.cc/en/Tutorial/Blink>

*/

Found in path(s):

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-

zip/SafeString/examples/loopTimer/LoopTimer_BlinkDelay/LoopTimer_BlinkDelay.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/loopTimer/LoopTimer_BlinkDelay/LoopTimer_BlinkDelay.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-

zip/SafeString/examples/loopTimer/LoopTimer_BlinkDelay/LoopTimer_BlinkDelay.ino

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/*

Tokenizing SafeStrings and converting to numbers

Examples of how to use the token and toLong() and toDouble() to parse a CSV line

by Matthew Ford

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*/

Found in path(s):

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-
zip/SafeString/examples/SafeString_Tests/SafeString_stoken/SafeString_stoken.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/examples/SafeString_Tests/SafeString_stoken/SafeString_stoken.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString_Tests/SafeString_stoken/SafeString_stoken.ino

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/*

SafeStringReader_flushInput.ino

This example flushes any initial input and also starts flushing if "flush" is found in the text stream

by Matthew Ford

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or from www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html

*/

Found in path(s):

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-
zip/SafeString/examples/SafeStringReader_flushInput/SafeStringReader_flushInput.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-
zip/SafeString/examples/SafeStringReader_flushInput/SafeStringReader_flushInput.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeStringReader_flushInput/SafeStringReader_flushInput.ino

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/*

OBD_Processor.ino for SafeString V4.0.0+

Example of using SafeString to process Car OnBoardData

by Matthew Ford

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*/

Found in path(s):

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/OBD_Processor/OBD_Processor.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/OBD_Processor/OBD_Processor.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/examples/OBD_Processor/OBD_Processor.ino

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/*

SafeStringReader_Assign.ino

This example = to SafeStringReader

by Matthew Ford

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or from www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html

*/

Found in path(s):

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeStringReader_Assign/SafeStringReader_Assign.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeStringReader_Assign/SafeStringReader_Assign.ino

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/examples/SafeStringReader_Assign/SafeStringReader_Assign.ino

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/*

Comparing SafeStrings

Examples of how to compare SafeStrings using the comparison operators

by Matthew Ford

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Modified from String Examples by Tom Igoe

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www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html

*/

Found in path(s):

```
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
master/PlatformIO/safestringio-
zip/SafeString/examples/SafeString_Tests/SafeStringComparisonOperators/SafeStringComparisonOperators.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
master/PlatformIO/safestringio-namespace-
zip/SafeString/examples/SafeString_Tests/SafeStringComparisonOperators/SafeStringComparisonOperators.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
master/examples/SafeString_Tests/SafeStringComparisonOperators/SafeStringComparisonOperators.ino
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```

```
/* SafeStringInClasses_1.ino
   Example of using SafeString for Class char[]s
```

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or from www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
master/PlatformIO/safestringio-namespace-
zip/SafeString/examples/SafeStringsInClasses_1/SafeStringsInClasses_1.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
master/examples/SafeStringsInClasses_1/SafeStringsInClasses_1.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
master/PlatformIO/safestringio-zip/SafeString/examples/SafeStringsInClasses_1/SafeStringsInClasses_1.ino
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```

```
/*
```

```
SafeStringReader_GPS.ino
```

This example reads GPS data from a SafeStringStream continuously using a SafeStringReader

by Matthew Ford
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or from www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
master/PlatformIO/safestringio-zip/SafeString/examples/SafeStringReader_GPS/SafeStringReader_GPS.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
```


master/examples/SafeStringReader_GPS/SafeStringReader_GPS.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
master/PlatformIO/safestringio-namespace-
zip/SafeString/examples/SafeStringReader_GPS/SafeStringReader_GPS.ino
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/*

SafeString.h static memory SafeString library modified by
Matthew Ford
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modified from
WString.h - String library for Wiring & Arduino
...mostly rewritten by Paul Stoffregen...
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Copyright 2011, Paul Stoffregen, paul@pjrc.com

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*/

Found in path(s):

* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/src/SafeString.h
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
master/PlatformIO/safestringio-namespace-zip/SafeString/src/SafeString.h
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
master/PlatformIO/safestringio-zip/SafeString/src/SafeString.h

1.33 opus 1.1

1.34 icu 56

1.34.1 Available under license :

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1.35 glew 2.1.0

1.35.1 Available under license :

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Mesa 3-D graphics library
Version: 7.0

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David Turner, Robert Wilhelm, and Werner Lemberg

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#

builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

include/freetype/internal/fthash.h

#

```
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftandom/ftandom.c
#
# EOF
```

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1.43 pdfium 2.6

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1.44 libwebp 1.0.3

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1.45 tiny-xml 2.6.2

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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, 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). 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.)

 TinyXPath (<http://tinyxpath.sourceforge.net>). TinyXPath is a small footprint XPath syntax decoder, written in C++.

 TinyXML++ (<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.

<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.

UTF-8

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:

 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.

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

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

 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.

 Until one of the above criteria is met, TinyXML runs in Legacy Mode.

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 `Skew.org link` 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 & 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 " " or " " are both to the non-breaking space character.

<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 standard 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 `TiXmlElement::Row()` and `TiXmlElement::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.

Windows project file for VC6

tinyxml: tinyxml library, non-STL

tinyxmlSTL: tinyxml library, STL

tinyXmlTest: test app, non-STL

tinyXmlTestSTL: test app, STL

Makefile

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.

To Use in an Application:

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.

How TinyXML works.

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 <b>Toy store!</b></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 OReilly...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

Lee Thomason, Yves Berquin, Andrew Ellerton

*/

Found in path(s):

* /opt/cola/permits/1228782719_1637099887.61/0/tinyxml-2-6-2-1-tar-gz/tinyxml/readme.txt

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

/*

www.sourceforge.net/projects/tinyxml

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1.46 cef 1.0

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1.47 libxslt 1.1.34

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1.49 apr 1.7.0

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1.50 zlib 1.2.11

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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).

*/

1.51 curl 8.0.1

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1.52 glib 2

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1.53 cyrus-sasl 2.1.27

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
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```

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#endif /* _KERBEROS_MIT_COPYRIGHT_H */
```

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```

```
* Tim Martin
```

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* Rob Earhart
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* Rob Siemborski
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*/
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/*
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1.54 sqlite 3.39.2

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

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

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

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

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|----------------|--------------|-----------|-------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |

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|---------------|-----------|----------|------------|---------|
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes |

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1.57 open-ldap 2.4.57

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1.59 direct3d 10.0.17134.12

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1.60 kerberos 4.1

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
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lib/libgss/g_acquire_cred.c
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lib/libgss/g_delete_sec_context.c
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lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c

lib/libgss/g_glue.c
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lib/libgss/g_inquire_names.c
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lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c

lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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- lib/gssapi/generic/gssapi_err_generic.et
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- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
- lib/gssapi/mechglue/g_delete_sec_context.c
- lib/gssapi/mechglue/g_dsp_name.c
- lib/gssapi/mechglue/g_dsp_status.c
- lib/gssapi/mechglue/g_dup_name.c
- lib/gssapi/mechglue/g_exp_sec_context.c
- lib/gssapi/mechglue/g_export_name.c
- lib/gssapi/mechglue/g_glue.c

lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/ipropr_hdr.h
kadmin/server/ipropr_svc.c
lib/kdb/ipropr.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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- lib/gssapi/mechglue/g_acquire_cred.c
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- lib/gssapi/mechglue/g_export_name.c
- lib/gssapi/mechglue/g_glue.c
- lib/gssapi/mechglue/g_imp_name.c
- lib/gssapi/mechglue/g_imp_sec_context.c
- lib/gssapi/mechglue/g_init_sec_context.c
- lib/gssapi/mechglue/g_initialize.c
- lib/gssapi/mechglue/g_inquire_context.c
- lib/gssapi/mechglue/g_inquire_cred.c
- lib/gssapi/mechglue/g_inquire_names.c
- lib/gssapi/mechglue/g_process_context.c
- lib/gssapi/mechglue/g_rel_buffer.c
- lib/gssapi/mechglue/g_rel_cred.c
- lib/gssapi/mechglue/g_rel_name.c
- lib/gssapi/mechglue/g_rel_oid_set.c
- lib/gssapi/mechglue/g_seal.c
- lib/gssapi/mechglue/g_sign.c
- lib/gssapi/mechglue/g_store_cred.c
- lib/gssapi/mechglue/g_unseal.c
- lib/gssapi/mechglue/g_userok.c
- lib/gssapi/mechglue/g_utils.c
- lib/gssapi/mechglue/g_verify.c
- lib/gssapi/mechglue/gssd_pname_to_uid.c
- lib/gssapi/mechglue/mglueP.h
- lib/gssapi/mechglue/oid_ops.c
- lib/gssapi/spnego/gssapiP_spnego.h
- lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

- include/iprop_hdr.h
- kadmin/server/ipropd_svc.c
- lib/kdb/iprop.x
- lib/kdb/kdb_convert.c

lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in

"src/lib/gssapi", including the following files:

- lib/gssapi/generic/gssapi_err_generic.et
- lib/gssapi/mechglue/g_accept_sec_context.c
- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
- lib/gssapi/mechglue/g_delete_sec_context.c
- lib/gssapi/mechglue/g_dsp_name.c
- lib/gssapi/mechglue/g_dsp_status.c
- lib/gssapi/mechglue/g_dup_name.c
- lib/gssapi/mechglue/g_exp_sec_context.c
- lib/gssapi/mechglue/g_export_name.c
- lib/gssapi/mechglue/g_glue.c
- lib/gssapi/mechglue/g_imp_name.c
- lib/gssapi/mechglue/g_imp_sec_context.c
- lib/gssapi/mechglue/g_init_sec_context.c
- lib/gssapi/mechglue/g_initialize.c
- lib/gssapi/mechglue/g_inquire_context.c
- lib/gssapi/mechglue/g_inquire_cred.c
- lib/gssapi/mechglue/g_inquire_names.c
- lib/gssapi/mechglue/g_process_context.c
- lib/gssapi/mechglue/g_rel_buffer.c
- lib/gssapi/mechglue/g_rel_cred.c
- lib/gssapi/mechglue/g_rel_name.c
- lib/gssapi/mechglue/g_rel_oid_set.c
- lib/gssapi/mechglue/g_seal.c
- lib/gssapi/mechglue/g_sign.c
- lib/gssapi/mechglue/g_store_cred.c
- lib/gssapi/mechglue/g_unseal.c
- lib/gssapi/mechglue/g_userok.c
- lib/gssapi/mechglue/g_utils.c
- lib/gssapi/mechglue/g_verify.c
- lib/gssapi/mechglue/gssd_pname_to_uid.c
- lib/gssapi/mechglue/mglueP.h
- lib/gssapi/mechglue/oid_ops.c
- lib/gssapi/spnego/gssapiP_spnego.h
- lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

- include/iprop_hdr.h
- kadmin/server/ipropd_svc.c
- lib/kdb/iprop.x
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c

lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

- lib/gssapi/generic/gssapi_err_generic.et
- lib/gssapi/mechglue/g_accept_sec_context.c
- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
- lib/gssapi/mechglue/g_delete_sec_context.c
- lib/gssapi/mechglue/g_dsp_name.c
- lib/gssapi/mechglue/g_dsp_status.c
- lib/gssapi/mechglue/g_dup_name.c
- lib/gssapi/mechglue/g_exp_sec_context.c
- lib/gssapi/mechglue/g_export_name.c
- lib/gssapi/mechglue/g_glue.c
- lib/gssapi/mechglue/g_imp_name.c
- lib/gssapi/mechglue/g_imp_sec_context.c
- lib/gssapi/mechglue/g_init_sec_context.c
- lib/gssapi/mechglue/g_initialize.c
- lib/gssapi/mechglue/g_inquire_context.c
- lib/gssapi/mechglue/g_inquire_cred.c
- lib/gssapi/mechglue/g_inquire_names.c
- lib/gssapi/mechglue/g_process_context.c
- lib/gssapi/mechglue/g_rel_buffer.c
- lib/gssapi/mechglue/g_rel_cred.c
- lib/gssapi/mechglue/g_rel_name.c
- lib/gssapi/mechglue/g_rel_oid_set.c
- lib/gssapi/mechglue/g_seal.c
- lib/gssapi/mechglue/g_sign.c
- lib/gssapi/mechglue/g_store_cred.c
- lib/gssapi/mechglue/g_unseal.c

lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/ipropr_hdr.h
kadmin/server/iproprd_svc.c
lib/kdb/ipropr.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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