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Tests included here are based on build output generated by the six-speed
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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk


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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.

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License: http://lao-dictionary.googlecode.com/git/Lao-Dictionary-LICENSE.txt
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#
# This list is part of a project hosted at:
# github.com/kanyawtech/myanmar-karen-word-lists
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#
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## -*-makefile-*-

```
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## License & terms of use: http://www.unicode.org/copyright.html
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Copyright (c) 1999-2013, International Business Machines Corporation and
## others. All Rights Reserved.

## 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
SHAREDLIBFLAGS = -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,-Bs symbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

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

%.%$(srcdir)/%.cpp

$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

```

---

Open Source Used In Cisco Jabber for Windows 12.869
## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \n| sed \"s/\(\*\)\.o[ :]*/\1.o $@ : /g\" > $@;\n [ -s $@ ]|| rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n| sed \"s/\(\*\)\.o[ :]*/\1.o $@ : /g\" > $@;\n [ -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)).$((SO)).$((SO_TARGET_VERSION_MAJOR)) $@

## 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

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
 "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html;charset=UTF-8">
<title>ICU License - moved to LICENSE</title>
</head>

<body BGCOLOR="#ffffff">
<p>
The ICU license is now in plain text format, see <a href="./LICENSE">LICENSE</a>. Update links and software appropriately.
</p>
1.9 glib 2.27.1

1.9.1 Available under license:

This package was debianized by Ben Gertzfield <che@debian.org>
on Tue, 17 Nov 1998 00:16:10 -0800

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1.11 jansson 2.7

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base64.hpp is a repackaging of the base64.cpp and base64.h files into a single header suitable for use as a header only library. This conversion was done by Peter Thorson (webmaster@zaphoyd.com) in 2012. All modifications to the code are redistributed under the same license as the original, which is
base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

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L. Peter Deutsch
ghost@aladdin.com

****** UTF8 Validation logic (utf8_validation.hpp) ******
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1.17 hunspell 1.7.0

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1.20 ots 1.0

1.21 libsrt 2.2.0
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1.22 boost 1.65.1

1.23 icu 56.1

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## 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 $<"
@$'(GEN_DEPS.cc) $< \ 
| sed \"s/\($*\)/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_MAJOR) $@
## 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

### 1.24 curl 7.66.0

#### 1.24.1 Available under license:

License Mixing

=========

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

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## GnuTLS

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27287199
27287880
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1.26 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 endpoints shouldn't be at offsets inside nodes that aren't containers or text nodes.

Hello world!
Hello World!
Success
Success
Success
Success
Success
Success
Success
Success
Success
Success
Success
Success
Success
Success
Success
Success
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
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
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.

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Version 1.1 - 26 February 2007

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PASS: Navigation relative to base element.
Tests that when a position is available, 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 successfullyParsed is true

TEST COMPLETE
Tests that it is possible to request permission to display Web Notifications from a document context, for which the passed callback will be invoked with the requests' result. It also makes sure that not passing a callback won't result in a crash.

PASS successfullyParsed is true

TEST COMPLETE
PASS result is "default"
PASS result is "granted"
Tests that when Geolocation permission has been denied prior to a call to watchPosition, and the watch is cleared in the error callback, there is no crash. This a regression test for https://bugs.webkit.org/show_bug.cgi?id=32111.

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 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
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Version 2, June 1991

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TEST COMPLETE
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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "xhtml1-strict.dtd">
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<p>
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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
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<!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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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
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" |

| " |

| " |

| " |

| " |

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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
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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
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Steven Reddie at essemer dot com dot au
Bug fix.
Alexander Terekhover 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;
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bug fixes.
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and TryEnterCriticalSection;
procedure to fix Mingw32 thread-safety issues.
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re-implemented pthread_once (version 2)
(pthread_once cancellation added by rpj).
Vladimir Kliatchkovladimir 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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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

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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
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Detaching a frame should bypass it's cached permissionclient 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
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.
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
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THE SOFTWARE.
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

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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
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
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PASS: first plugin loaded

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<head>
<title>W3C IPR SOFTWARE NOTICE</title>
</head>
<body>
<h1>
W3C IPR SOFTWARE NOTICE
</h1>
<h3>
W3C IPR SOFTWARE NOTICE
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</body>
</html>

1.27 zlib 1.2.8

1.27.1 Available under license :

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

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1.28 libpng 1.6.37
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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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1.29 libxslt 1.1.33

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1.32 oracle-manageddataaccess 18.3.0

1.33 kveer-xmlrpc 1.0.0

1.34 zlib 1.2.3

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1.48 sipcc 12.8.0

1.49 libusb 1.0.23

1.49.1 Available under license :

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The contributing author(s) would like to thank all those who helped with testing, bug fixes and suggestions for improvements. This wouldn't have been possible without your help.

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1.52 libxml 2.9.9

1.52.1 Available under license:

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1.53 udt 1.0.3

1.54 tiny-xml 2.6.2

1.54.1 Available under license:

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1.55 apr 1.7.0

1.56 websocketpp 0.8.0

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base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

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function as a component of a header only library. This conversion was done by
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L. Peter Deutsch
ghost@aladdin.com

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1.57 opus 1.1

1.58 zlib 1.2.5

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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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jloup@gzip.org          madler@alumni.caltech.edu

*/

1.59 json-c 0.12

1.59.1 Available under license:

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1.60 gstreamer 0.10.30.1

1.60.1 Available under license:

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.61 kerberos 1.17

1.62 speexdsp 1.2.0
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1.63 libjpeg 9b

1.63.1 Notifications:
This software is based in part on the work of the Independent JPEG Group.

1.63.2 Available under license:
The Independent JPEG Group's JPEG software

README for release 6b of 27-Mar-1998

This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.
Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

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

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library’s internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful 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 compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

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. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. 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.

We welcome the use of this software as a component of commercial products.
No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
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In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

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(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".
We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

ansi2knr.c is included in this distribution by permission of L. Peter Deutsch, sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA. ansi2knr.c is NOT covered by the above copyright and conditions, but instead by the usual distribution terms of the Free Software Foundation; principally, that you must include source code if you redistribute it. (See the file ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

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, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, 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.

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

REFERENCES
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We highly 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 PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. 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 JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The 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.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IIG currently does not support any Part 3 extensions.
The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

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 ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. 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. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. 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/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has
become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.