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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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  compiler/cpp/src/generate/t_st_generator.cc
  compiler/cpp/src/generate/t_xsd_generator.cc
  compiler/cpp/src/main.cc
  compiler/cpp/src/parse/t_field.h
  compiler/cpp/src/parse/t_program.h
  compiler/cpp/src/platform.h
  compiler/cpp/src/thriftl.ll
  compiler/cpp/src/thrifty.yy
  lib/csharp/src/Protocol/TBinaryProtocol.cs
  lib/csharp/src/Protocol/TField.cs
  lib/csharp/src/Protocol/TLList.cs
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  lib/csharp/src/Protocol/TLMessage.cs
  lib/csharp/src/Protocol/TLMessage_Type.cs
  lib/csharp/src/Protocol/TProtocol.cs
  lib/csharp/src/Protocol/TProtocolException.cs
  lib/csharp/src/Protocol/TProtocolFactory.cs
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lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
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1.5 libxml 2.9.10

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C++ Big Integer Library
(see ChangeLog for version)

http://mattmccutchen.net/bigint/

Written and maintained by Matt McCutchen <matt@mattmccutchen.net>

You can use this library in a C++ program to do arithmetic on integers of size limited only by your computer's memory. The library provides BigUnsigned and BigInteger classes that represent nonnegative integers and signed integers, respectively. Most of the C++ arithmetic operators are overloaded for these classes, so big-integer calculations are as easy as:

#include "BigIntegerLibrary.hh"
BigInteger a = 65536;
cout << (a * a * a * a * a * a * a * a);

(prints 340282366920938463463374607431768211456)

The code in `sample.cc' demonstrates the most important features of the library. To get started quickly, read the code and explanations in that file and run it. If you want more detail or a feature not shown in `sample.cc', consult the actual header and source files, which are thoroughly commented.

This library emphasizes ease of use and clarity of implementation over speed; some users will prefer GMP (http://swox.com/gmp/), which is faster. The code is intended to be reasonably portable across computers and modern C++ compilers; in particular, it uses whatever word size the computer provides (32-bit, 64-bit, or otherwise).

Compiling programs that use the library
---------------------------------------
The library consists of a folder full of C++ header files (`.hh') and source files (`.cc'). Your own programs should `#include' the necessary header files and link with the source files. A makefile that builds the sample program (`sample.cc') is included; you can adapt it to replace the sample with your own program.

Alternatively, you can use your own build system or IDE. In that case, you must put the library header files where the compiler will find them and arrange to have your program linked with the library source files; otherwise, you will get errors about missing header files or "undefined references". To learn how to do this, consult the documentation for the build system or IDE; don't bother asking me. Adding all the library files to your project will work in many IDEs but may not be the most desirable approach.

Resources
---------
The library's Web site (above) provides links to released versions, the current development version, and a mailing list for release announcements, questions, bug reports, and other discussion of the library. I would be delighted to hear from you if you like this library and/or find a good use for it.

Bugs and enhancements
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The library has been tested by me and others but is by no means bug-free. If you find a bug, please report it, whether it comes in the form of compiling trouble, a mathematically inaccurate result, or a memory-management blooper (since I use Java, these are altogether too common in my C++). I generally fix all reported bugs. You are also welcome to request enhancements, but I am unlikely to do substantial amounts of work on enhancements at this point.
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2006-Jan-27

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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.

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Patch contributors:
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  * Small patch to handle trailing slashes in --proto_path flag.
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  * Small patch to fix Python CallMethod()．
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  * Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
  * VI syntax highlighting tweaks.
  * Fix compiler to not make output executable.
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  * Heuristic detection of sub-messages when printing unknown fields in
text format.
Brian Atkinson <nairb774@gmail.com>
  * Added @Override annotation to generated Java code where appropriate.
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* Solaris 10 + Sun Studio fixes.
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* Slicing support for repeated scalar fields for the Python API.
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* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.
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* gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>
* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.
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* Fixed initialization ordering problem in logging code.
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* Small patch improving performance of in Python serialization.
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* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
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* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
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* HPUX support.
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* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xLC compiler build issues
* Added atomicops for AIX (POWER)

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jar/org/webrtc/videoengine/VideoCaptureDeviceInfoAndroid.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-
jar/org/webrtc/videoengine/VideoCaptureAndroid.java
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* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-
jar/org/webrtc/voiceengine/AudioManagerAndroid.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-
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* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/StatsObserver.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/VideoCapturer.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/MediaStream.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/MediaSource.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/DataChannel.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/AudioSource.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/PeerConnection.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/IceCandidate.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/VideoRenderer.java
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* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/VideoRenderer.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/VideoRenderer.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/VideoRenderer.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/VideoRenderer.java
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* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/VideoRenderer.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/VideoRenderer.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/VideoRenderer.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/VideoRenderer.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/VideoRenderer.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/VideoRenderer.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/VideoRenderer.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/VideoRenderer.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/VideoRenderer.java
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* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/VideoRenderer.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/VideoRenderer.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/MediaStreamTrack.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/SdpObserver.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/Logging.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/AudioTrack.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/StatsReport.java

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* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/VideoTrack.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/VideoSource.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/PeerConnectionFactory.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/MediaConstraints.java
* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/MediaCodecVideoEncoder.java

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* /opt/ws_local/PERMITS_SQL/1067811762_1594215317.24/0/webrtc-0-2-11-sources-jar/org/webrtc/VideoRendererGui.java
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### 1.24 icu 59

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```
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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) $< \n| sed '/\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\}$/ | rm -f $@’
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n| sed '/\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\$/o://\$\*\}$/ | rm -f $@’

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s $< $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s $< $@

## 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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1.30 nghttp2 1.41.0-2

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1.31 libjpeg 6b

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README for release 6b of 27-Mar-1998

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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,
rjjpgcom, 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.

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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.

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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...

and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

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. IJG 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
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Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

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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

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/.

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

RELATED SOFTWARE

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

=====
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.

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