Oracle VirtualBox

Licensing Information User Manual for Release 7.2

G17188-02
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```
A-Profile Architecture

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AARCHMRS containing the JSON files for Arm A-profile architecture (2024-12)
16th December 2024

****************

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```


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Product status
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alsa-lib

alsa-lib

include/asoundlib.h:
```
/**
 * \file include/asoundlib.h
 * \brief Application interface library for the ALSA driver
```


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```
 * \author Jaroslav Kysela <perex@perex.cz>
 * \author Abramo Bagnara <abramo@alsa-project.org>
 * \author Takashi Iwai <tiwai@suse.de>
 * \date 1998-2001
 *
 * Application interface library for the ALSA driver
 */
/*
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  ROM BIOS for use with Bochs/Plex86/QEMU emulation environment

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dxmt

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 *  TODO:
 *       oClean up.
 *       oConsidering for word alignment for other platform.
 */
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 *    from: Id: in_cksum.c,v 1.8 1995/12/03 18:35:19 bde Exp
 * $FreeBSD: src/sys/amd64/include/in_cksum.h,v 1.5.20.1 2009/04/15 03:14:26 kensmith
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 */
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 *
 *      $FreeBSD: src/sys/sys/sbuf.h,v 1.14.18.1.2.1 2009/04/15 03:14:26 kensmith Exp $
 */
```

Glib

```
Glib

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glibc

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glslang

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glslang

Here, glslang proper means core GLSL parsing, HLSL parsing, and SPIR-V code
generation. Glslang proper requires use of a number of licenses, one that covers
preprocessing and others that covers non-preprocessing.

Bison was removed long ago. You can build glslang from the source grammar,
using tools of your choice, without using bison or any bison files.

Other parts, outside of glslang proper, include:

- gl_types.h, only needed for OpenGL-like reflection, and can be left out of
  a parse and codegen project.  See it for its license.

- update_glslang_sources.py, which is not part of the project proper and does
  not need to be used.

- the SPIR-V "remapper", which is optional, but has the same license as
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```


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- Google tests and SPIR-V tools, and anything in the external subdirectory
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gsoap/stdsoap2.cpp

        stdsoap2.c[pp] 2.8.122

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*/
```

gtk3 (GNOME desktop)

```
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inputproto

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information specific to libjpeg-turbo.


The Independent JPEG Group's JPEG software
==========================================

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IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee
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DOCUMENTATION ROADMAP
=====================
```


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```
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.
FILE FORMAT WARS    Software *not* to get.
TO DO               Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
  doc/usage.txt         Usage instructions for cjpeg, djpeg, jpegtran,
                        rdjpgcom, and wrjpgcom.
  doc/*.1               Unix-style man pages for programs (same info as
                        usage.txt).
  doc/wizard.txt        Advanced usage instructions for JPEG wizards only.
  doc/change.log        Version-to-version change highlights.
Programmer and internal documentation:
  doc/libjpeg.txt       How to use the JPEG library in your own programs.
  src/example.c         Sample code for calling the JPEG library.
  doc/structure.txt     Overview of the JPEG library's internal structure.
  doc/coderules.txt     Coding style rules --- please read if you contribute
                        code.

Please read at least 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.  JPEG's strong suit is compressing
photographic images or other types of images that have smooth color and
brightness transitions between neighboring pixels.  Images with sharp lines or
other abrupt features may not compress well with JPEG, and a higher JPEG
quality may have to be used to avoid visible compression artifacts with such
images.

JPEG is normally lossy, meaning that the output pixels are not necessarily
identical to the input pixels.  However, on photographic content and other
"smooth" images, very good compression ratios can be obtained with no visible
compression artifacts, and extremely high compression ratios are possible if
you are willing to sacrifice image quality (by reducing the "quality" setting
in the compressor.)

This software implements JPEG baseline, extended-sequential, progressive, and
lossless 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
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.
```


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```
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.  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
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REFERENCES
==========

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).

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.

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. JFIF version 1 has been adopted as ISO/IEC 10918-5 (05/2013) and
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
https://www.iso.org/standard/54989.html and http://www.itu.int/rec/T-REC-T.871.
A PDF file of the older JFIF 1.02 specification is available at

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```
http://www.w3.org/Graphics/JPEG/jfif3.pdf.

The TIFF 6.0 file format specification can be obtained from
http://mirrors.ctan.org/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
=================

The "official" archive site for this software is www.ijg.org.
The most recent released version can always be found there in
directory "files".

The JPEG FAQ (Frequently Asked Questions) article is a source of some
general information about JPEG.  It is available at
http://www.faqs.org/faqs/jpeg-faq.


FILE FORMAT COMPATIBILITY
=========================

This software implements ITU T.81 | ISO/IEC 10918 with some extensions from
ITU T.871 | ISO/IEC 10918-5 (JPEG File Interchange Format-- see REFERENCES).
Informally, the term "JPEG image" or "JPEG file" most often refers to JFIF or
a subset thereof, but there are other formats containing the name "JPEG" that
are incompatible with the original JPEG standard or with JFIF (for instance,
JPEG 2000 and JPEG XR).  This software therefore does not support these
formats.  Indeed, one of the original reasons for developing this free software
was to help force convergence on a common, interoperable format standard for
JPEG files.

JFIF is a minimal or "low end" representation.  TIFF/JPEG (TIFF revision 6.0 as
modified by TIFF Technical Note #2) can be used for "high end" applications
that need to record a lot of additional data about an image.


TO DO
=====

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

http://zlib.net/zlib_license.html
/* zlib.h -- interface of the 'zlib' general purpose compression library
  version 1.3.1, January 22nd, 2024

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*/
```

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README.md

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Original authors and current maintainers of Linux-PAM:

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Sebastien Tricaud    <toady@gscore.org>
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libpciaccess

```
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```
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```

```
## Files:
arm/palette_neon_intrinsics.c

/* palette_neon_intrinsics.c - NEON optimised palette expansion functions
 *
 * Copyright (c) 2018-2019 Cosmin Truta
 * Copyright (c) 2017-2018 Arm Holdings. All rights reserved.
 * Written by Richard Townsend <Richard.Townsend@arm.com>, February 2017.
 *
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 * and license in png.h
 */

## Files:
contrib/gregbook/readpng.h

/*---------------------------------------------------------------------------

   rpng - simple PNG display program                            readpng.h

  ---------------------------------------------------------------------------

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```


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      Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307  USA

  ------------------------------------------------------------------------*/

## Files:
contrib/pngminus/pnm2png.c

/*
 *  pnm2png.c --- conversion from PBM/PGM/PPM-file to PNG-file
 *  copyright (C) 1999-2019 by Willem van Schaik <willem at schaik dot com>
 *
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 *  distribution and use, see the LICENSE file part of this package.
 */

## Files:
png.h
```


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```
/*
 * A "png_get_copyright" function is available, for convenient use in "about"
 * boxes and the like:
 *
 *    printf("%s", png_get_copyright(NULL));
 *
 * Also, the PNG logo (in PNG format, of course) is supplied in the
 * files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).
 */

## Files:
powerpc/powerpc_init.c

/* powerpc_init.c - POWERPC optimised filter functions
 *
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 * Copyright (c) 2017 Glenn Randers-Pehrson
 * Written by Vadim Barkov, 2017.
 *
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 * and license in png.h
 */

## Files:
contrib/visupng/cexcept.h

/*===
cexcept.h 2.0.1 (2008-Jul-19-Sat)
http://www.nicemice.net/cexcept/
Adam M. Costello
http://www.nicemice.net/amc/

An interface for exception-handling in ANSI C (C89 and subsequent ISO
standards), developed jointly with Cosmin Truta.

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The cexcept interface is not compatible with and cannot interact
with system exceptions (like division by zero or memory segmentation
violation), compiler-generated exceptions (like C++ exceptions), or
other exception-handling interfaces.

When using this interface across multiple .c files, do not include
this header file directly.  Instead, create a wrapper header file that
includes this header file and then invokes the define_exception_type
macro (see below).  The .c files should then include that header file.

The interface consists of one type, one well-known name, and six macros.


define_exception_type(type_name);

    This macro is used like an external declaration.  It specifies
    the type of object that gets copied from the exception thrower to
```


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```
    the exception catcher.  The type_name can be any type that can be
    assigned to, that is, a non-constant arithmetic type, struct, union,
    or pointer.  Examples:

        define_exception_type(int);

        enum exception { out_of_memory, bad_arguments, disk_full };
        define_exception_type(enum exception);

        struct exception { int code; const char *msg; };
        define_exception_type(struct exception);

    Because throwing an exception causes the object to be copied (not
    just once, but twice), programmers may wish to consider size when
    choosing the exception type.


struct exception_context;

    This type may be used after the define_exception_type() macro has
    been invoked.  A struct exception_context must be known to both
    the thrower and the catcher.  It is expected that there be one
    context for each thread that uses exceptions.  It would certainly
    be dangerous for multiple threads to access the same context.
    One thread can use multiple contexts, but that is likely to be
    confusing and not typically useful.  The application can allocate
    this structure in any way it pleases--automatic, static, or dynamic.
    The application programmer should pretend not to know the structure
    members, which are subject to change.


struct exception_context *the_exception_context;

    The Try/Catch and Throw statements (described below) implicitly
    refer to a context, using the name the_exception_context.  It is
    the application's responsibility to make sure that this name yields
    the address of a mutable (non-constant) struct exception_context
    wherever those statements are used.  Subject to that constraint, the
    application may declare a variable of this name anywhere it likes
    (inside a function, in a parameter list, or externally), and may
    use whatever storage class specifiers (static, extern, etc) or type
    qualifiers (const, volatile, etc) it likes.  Examples:

        static struct exception_context
          * const the_exception_context = &foo;

        { struct exception_context *the_exception_context = bar; ... }

        int blah(struct exception_context *the_exception_context, ...);

        extern struct exception_context the_exception_context[1];

    The last example illustrates a trick that avoids creating a pointer
    object separate from the structure object.

    The name could even be a macro, for example:

        struct exception_context ec_array[numthreads];
        #define the_exception_context (ec_array + thread_id)

    Be aware that the_exception_context is used several times by the
    Try/Catch/Throw macros, so it shouldn't be expensive or have side
```


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```
    effects.  The expansion must be a drop-in replacement for an
    identifier, so it's safest to put parentheses around it.


void init_exception_context(struct exception_context *ec);

    For context structures allocated statically (by an external
    definition or using the "static" keyword), the implicit
    initialization to all zeros is sufficient, but contexts allocated
    by other means must be initialized using this macro before they
    are used by a Try/Catch statement.  It does no harm to initialize
    a context more than once (by using this macro on a statically
    allocated context, or using this macro twice on the same context),
    but a context must not be re-initialized after it has been used by a
    Try/Catch statement.


Try statement
Catch (expression) statement

    The Try/Catch/Throw macros are capitalized in order to avoid
    confusion with the C++ keywords, which have subtly different
    semantics.

    A Try/Catch statement has a syntax similar to an if/else statement,
    except that the parenthesized expression goes after the second
    keyword rather than the first.  As with if/else, there are two
    clauses, each of which may be a simple statement ending with a
    semicolon or a brace-enclosed compound statement.  But whereas
    the else clause is optional, the Catch clause is required.  The
    expression must be a modifiable lvalue (something capable of being
    assigned to) of the same type (disregarding type qualifiers) that
    was passed to define_exception_type().

    If a Throw that uses the same exception context as the Try/Catch is
    executed within the Try clause (typically within a function called
    by the Try clause), and the exception is not caught by a nested
    Try/Catch statement, then a copy of the exception will be assigned
    to the expression, and control will jump to the Catch clause.  If no
    such Throw is executed, then the assignment is not performed, and
    the Catch clause is not executed.

    The expression is not evaluated unless and until the exception is
    caught, which is significant if it has side effects, for example:

        Try foo();
        Catch (p[++i].e) { ... }

    IMPORTANT: Jumping into or out of a Try clause (for example via
    return, break, continue, goto, longjmp) is forbidden--the compiler
    will not complain, but bad things will happen at run-time.  Jumping
    into or out of a Catch clause is okay, and so is jumping around
    inside a Try clause.  In many cases where one is tempted to return
    from a Try clause, it will suffice to use Throw, and then return
    from the Catch clause.  Another option is to set a flag variable and
    use goto to jump to the end of the Try clause, then check the flag
    after the Try/Catch statement.

    IMPORTANT: The values of any non-volatile automatic variables
    changed within the Try clause are undefined after an exception is
    caught.  Therefore, variables modified inside the Try block whose
    values are needed later outside the Try block must either use static
```


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```
    storage or be declared with the "volatile" type qualifier.


Throw expression;

    A Throw statement is very much like a return statement, except that
    the expression is required.  Whereas return jumps back to the place
    where the current function was called, Throw jumps back to the Catch
    clause of the innermost enclosing Try clause.  The expression must
    be compatible with the type passed to define_exception_type().  The
    exception must be caught, otherwise the program may crash.

    Slight limitation:  If the expression is a comma-expression, it must
    be enclosed in parentheses.


Try statement
Catch_anonymous statement

    When the value of the exception is not needed, a Try/Catch statement
    can use Catch_anonymous instead of Catch (expression).


Everything below this point is for the benefit of the compiler.  The
application programmer should pretend not to know any of it, because it
is subject to change.

===*/

## Files:
contrib/tools/sRGB.h

/*-
 * sRGB.h
 *
 * Last changed in libpng 1.6.0 [February 14, 2013]
 *
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 * related or neighboring rights to this work.  This work is published from:
 * United States.
 *
 * Utility file; not actually a header, this contains definitions of sRGB
 * calculation functions for inclusion in those test programs that need them.
 *
 * All routines take and return a floating point value in the range
 * 0 to 1.0, doing a calculation according to the sRGB specification
 * (in fact the source of the numbers is the wikipedia article at
 * https://en.wikipedia.org/wiki/SRGB).
 */

## Files:
contrib/libtests/timepng.c

/* timepng.c
 *
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 *
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 * and license in png.h
 *
```


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```
 * Load an arbitrary number of PNG files (from the command line, or, if there
 * are no arguments on the command line, from stdin) then run a time test by
 * reading each file by row or by image (possibly with transforms in the latter
 * case).  The only output is a time as a floating point number of seconds with
 * 9 decimal digits.
 */

## Files:
example.c

/* example.c - an example of using libpng
 *
 * Maintained 2018 Cosmin Truta
 * Maintained 1998-2016 Glenn Randers-Pehrson
 * Maintained 1996-1997 Andreas Dilger
 * Written 1995-1996 Guy Eric Schalnat, Group 42, Inc.
 *
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 */

## Files:
intel/filter_sse2_intrinsics.c

/* filter_sse2_intrinsics.c - SSE2 optimized filter functions
 *
 * Copyright (c) 2018 Cosmin Truta
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 * Written by Mike Klein and Matt Sarett
 * Derived from arm/filter_neon_intrinsics.c
 *
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 * and license in png.h
 */

## Files:
contrib/libtests/makepng.c

/* Max out the text compression level in an attempt to make the license
 * small.   If --small then do the same for the IDAT.
 */

## Files:
powerpc/filter_vsx_intrinsics.c

/* filter_vsx_intrinsics.c - PowerPC optimised filter functions
 *
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 * Written by Vadim Barkov, 2017.
 *
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 */

## Files:
contrib/examples/iccfrompng.c

/*- iccfrompng
```


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```
 *
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 * related or neighboring rights to this work.  This work is published from:
 * United States.
 *
 * Extract any icc profiles found in the given PNG files.  This is a simple
 * example of a program that extracts information from the header of a PNG file
 * without processing the image.  Notice that some header information may occur
 * after the image data. Textual data and comments are an example; the approach
 * in this file won't work reliably for such data because it only looks for the
 * information in the section of the file that precedes the image data.
 *
 * Compile and link against libpng and zlib, plus anything else required on the
 * system you use.
 *
 * To use supply a list of PNG files containing iCCP chunks, the chunks will be
 * extracted to a similarly named file with the extension replaced by 'icc',
 * which will be overwritten without warning.
 */

## Files:
contrib/examples/pngpixel.c

/*- pngpixel
 *
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 * related or neighboring rights to this work.  This work is published from:
 * United States.
 *
 * Read a single pixel value from a PNG file.
 *
 * This code illustrates basic 'by-row' reading of a PNG file using libpng.
 * Rows are read until a particular pixel is found; the value of this pixel is
 * then printed on stdout.
 *
 * The code illustrates how to do this on interlaced as well as non-interlaced
 * images.  Normally you would call png_set_interlace_handling() to have libpng
 * deal with the interlace for you, but that obliges you to buffer half of the
 * image to assemble the interlaced rows.  In this code
 * png_set_interlace_handling() is not called and, instead, the code handles the
 * interlace passes directly looking for the required pixel.
 */

## Files:
contrib/gregbook/readppm.c

/*---------------------------------------------------------------------------

   rpng - simple PNG display program                            readppm.c

  ---------------------------------------------------------------------------

   This is a special-purpose replacement for readpng.c that allows binary
   PPM files to be used in place of PNG images.

  ---------------------------------------------------------------------------

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  ------------------------------------------------------------------------------*/

## Files:
pngrutil.c

/* pngrutil.c - utilities to read a PNG file
 *
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 * Copyright (c) 1996-1997 Andreas Dilger
 * Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.
 *
 * This code is released under the libpng license.
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 * and license in png.h
 *
 * This file contains routines that are only called from within
 * libpng itself during the course of reading an image.
```


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```
 */

## Files:
contrib/libtests/makepng.c

/*
 * This code is released under the libpng license.
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 * and license in png.h
 *
 * Make a test PNG image.  The arguments are as follows:
 *
 *    makepng [--sRGB|--linear|--1.8] [--tRNS] [--nofilters] \
 *       color-type bit-depth [file-name]
 *
 * The color-type may be numeric (and must match the numbers used by the PNG
 * specification) or one of the format names listed below.  The bit-depth is the
 * component bit depth, or the pixel bit-depth for a color-mapped image.
 *
 * Without any options no color-space information is written, with the options
 * an sRGB or the appropriate gAMA chunk is written.  "1.8" refers to the
 * display system used on older Apple computers to correct for high ambient
 * light levels in the viewing environment; it applies a transform of
 * approximately value^(1/1.45) to the color values and so a gAMA chunk of 65909
 * is written (1.45/2.2).
 *
 * The image data is generated internally.  Unless --color is given the images
 * used are as follows:
 *
 * 1 channel: a square image with a diamond, the least luminous colors are on
 *    the edge of the image, the most luminous in the center.
 *
 * 2 channels: the color channel increases in luminosity from top to bottom, the
 *    alpha channel increases in opacity from left to right.
 *
 * 3 channels: linear combinations of, from the top-left corner clockwise,
 *    black, green, white, red.
 *
 * 4 channels: linear combinations of, from the top-left corner clockwise,
 *    transparent, red, green, blue.
 *
 * For color-mapped images a four channel color-map is used and if --tRNS is
 * given the PNG file has a tRNS chunk, as follows:
 *
 * 1-bit: entry 0 is transparent-red, entry 1 is opaque-white
 * 2-bit: entry 0: transparent-green
 *        entry 1: 40%-red
 *        entry 2: 80%-blue
 *        entry 3: opaque-white
 * 4-bit: the 16 combinations of the 2-bit case
 * 8-bit: the 256 combinations of the 4-bit case
 *
 * The palette always has 2^bit-depth entries and the tRNS chunk one fewer.  The
 * image is the 1-channel diamond, but using palette index, not luminosity.
 *
 * For formats other than color-mapped ones if --tRNS is specified a tRNS chunk
 * is generated with all channels equal to the low bits of 0x0101.
 *
 * Image size is determined by the final pixel depth in bits, i.e. channels x
 * bit-depth, as follows:
 *
 * 8 bits or less:    64x64
```


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```
 * 16 bits:           256x256
 * More than 16 bits: 1024x1024
 *
 * Row filtering is the libpng default but may be turned off (the 'none' filter
 * is used on every row) with the --nofilters option.
 *
 * The images are not interlaced.
 *
 * If file-name is given then the PNG is written to that file, else it is
 * written to stdout.  Notice that stdout is not supported on systems where, by
 * default, it assumes text output; this program makes no attempt to change the
 * text mode of stdout!
 *
 *    makepng --color=<color> ...
 *
 * If --color is given then the whole image has that color, color-mapped images
 * will have exactly one palette entry and all image files with be 16x16 in
 * size.  The color value is 1 to 4 decimal numbers as appropriate for the color
 * type.
 *
 *    makepng --small ...
 *
 * If --small is given the images are no larger than required to include every
 * possible pixel value for the format.
 *
 * For formats with pixels 8 bits or fewer in size the images consist of a
 * single row with 2^pixel-depth pixels, one of every possible value.
 *
 * For formats with 16-bit pixels a 256x256 image is generated containing every
 * possible pixel value.
 *
 * For larger pixel sizes a 256x256 image is generated where the first row
 * consists of each pixel that has identical byte values throughout the pixel
 * followed by rows where the byte values differ within the pixel.
 *
 * In all cases the pixel values are arranged in such a way that the SUB and UP
 * filters give byte sequences for maximal zlib compression.  By default (if
 * --nofilters is not given) the SUB filter is used on the first row and the UP
 * filter on all following rows.
 *
 * The --small option is meant to provide good test-case coverage, however the
 * images are not easy to examine visually.  Without the --small option the
 * images contain identical color values; the pixel values are adjusted
 * according to the gamma encoding with no gamma encoding being interpreted as
 * sRGB.
 *
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 * IMPORTANT: the COPYRIGHT #define must contain ISO-Latin-1 characters, the
 * IMAGE_LICENSING #define must contain UTF-8 characters.  The 'copyright'
 * symbol 0xA9U (\251) in ISO-Latin-1 encoding and 0xC20xA9 (\302\251) in UTF-8.
 */

## Files:
contrib/powerpc-vsx/linux.c
```


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```
/* contrib/powerpc-vsx/linux.c
 *
 * Copyright (c) 2017 Glenn Randers-Pehrson
 * Written by Vadim Barkov, 2017.
 * Last changed in libpng 1.6.29 [March 16, 2017]
 *
 * This code is released under the libpng license.
 * For conditions of distribution and use, see the disclaimer
 * and license in png.h
 *
 * STATUS: TESTED
 * BUG REPORTS: png-mng-implement@sourceforge.net
 *
 * png_have_vsx implemented for Linux by reading the widely available
 * pseudo-file /proc/cpuinfo.
 *
 * This code is strict ANSI-C and is probably moderately portable; it does
 * however use <stdio.h> and it assumes that /proc/cpuinfo is never localized.
 */

## Files:
pngerror.c

/* pngerror.c - stub functions for i/o and memory allocation
 *
 * Copyright (c) 2018 Cosmin Truta
 * Copyright (c) 1998-2002,2004,2006-2017 Glenn Randers-Pehrson
 * Copyright (c) 1996-1997 Andreas Dilger
 * Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.
 *
 * This code is released under the libpng license.
 * For conditions of distribution and use, see the disclaimer
 * and license in png.h
 *
 * This file provides a location for all error handling.  Users who
 * need special error handling are expected to write replacement functions
 * and use png_set_error_fn() to use those functions.  See the instructions
 * at each function.
 */

## Files:
contrib/pngminim/decoder/pngusr.h

/* minrdpngconf.h: headers to make a minimal png-read-only library
 *
 * Copyright (c) 2007, 2010-2013 Glenn Randers-Pehrson
 *
 * This code is released under the libpng license.
 * For conditions of distribution and use, see the disclaimer
 * and license in png.h
 *
 * Derived from pngcrush.h, Copyright 1998-2007, Glenn Randers-Pehrson
 */

## Files:
contrib/libtests/pngunknown.c

/* pngunknown.c - test the read side unknown chunk handling
 *
 * Copyright (c) 2021 Cosmin Truta
 * Copyright (c) 2015,2017 Glenn Randers-Pehrson
```


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```
 * Written by John Cunningham Bowler
 *
 * This code is released under the libpng license.
 * For conditions of distribution and use, see the disclaimer
 * and license in png.h
 *
 * NOTES:
 *   This is a C program that is intended to be linked against libpng.  It
 *   allows the libpng unknown handling code to be tested by interpreting
 *   arguments to save or discard combinations of chunks.  The program is
 *   currently just a minimal validation for the built-in libpng facilities.
 */

## Files:
pngwtran.c

/* pngwtran.c - transforms the data in a row for PNG writers
 *
 * Copyright (c) 2018 Cosmin Truta
 * Copyright (c) 1998-2002,2004,2006-2016,2018 Glenn Randers-Pehrson
 * Copyright (c) 1996-1997 Andreas Dilger
 * Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.
 *
 * This code is released under the libpng license.
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 * and license in png.h
 */

## Files:
ci/ci_cmake.sh

# ci_cmake.sh
# Continuously integrate libpng using CMake.
#
# Copyright (c) 2019-2022 Cosmin Truta.
#
# This software is released under the libpng license.
# For conditions of distribution and use, see the disclaimer
# and license in png.h.

## Files:
contrib/pngminim/encoder/pngusr.h

/* minwrpngconf.h: headers to make a minimal png-write-only library
 *
 * Copyright (c) 2007, 2010-2013 Glenn Randers-Pehrson
 *
 * This code is released under the libpng license.
 * For conditions of distribution and use, see the disclaimer
 * and license in png.h
 *
 * Derived from pngcrush.h, Copyright 1998-2007, Glenn Randers-Pehrson
 */

## Files:
contrib/pngminus/png2pnm.c

/*
 *  png2pnm.c --- conversion from PNG-file to PGM/PPM-file
 *  copyright (C) 1999-2019 by Willem van Schaik <willem at schaik dot com>
 *
 *  This software is released under the MIT license. For conditions of
```


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```
 *  distribution and use, see the LICENSE file part of this package.
 */

## Files:
pngconf.h

/* pngconf.h - machine-configurable file for libpng
 *
 * libpng version 1.6.38
 *
 * Copyright (c) 2018-2022 Cosmin Truta
 * Copyright (c) 1998-2002,2004,2006-2016,2018 Glenn Randers-Pehrson
 * Copyright (c) 1996-1997 Andreas Dilger
 * Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.
 *
 * This code is released under the libpng license.
 * For conditions of distribution and use, see the disclaimer
 * and license in png.h
 *
 * Any machine specific code is near the front of this file, so if you
 * are configuring libpng for a machine, you may want to read the section
 * starting here down to where it starts to typedef png_color, png_text,
 * and png_info.
 */

## Files:
contrib/arm-neon/linux-auxv.c

/* contrib/arm-neon/linux-auxv.c
 *
 * Copyright (c) 2014 Glenn Randers-Pehrson
 * Written by Mans Rullgard, 2011.
 * Last changed in libpng 1.6.10 [March 6, 2014]
 *
 * This code is released under the libpng license.
 * For conditions of distribution and use, see the disclaimer
 * and license in png.h
 *
 * SEE contrib/arm-neon/README before reporting bugs
 *
 * STATUS: COMPILED, TESTED
 * BUG REPORTS: png-mng-implement@sourceforge.net
 *
 * png_have_neon implemented for Linux versions which allow access to
 * /proc/self/auxv.  This is probably faster, cleaner and safer than the code to
 * read /proc/cpuinfo in contrib/arm-neon/linux, however it is yet another piece
 * of potentially untested code and has more complex dependencies than the code
 * to read cpuinfo.
 *
 * This generic __linux__ implementation requires reading /proc/self/auxv and
 * looking at each element for one that records NEON capabilities.
 */

## Files:
contrib/gregbook/rpng2-win.c

/*---------------------------------------------------------------------------

   rpng2 - progressive-model PNG display program               rpng2-win.c

   This program decodes and displays PNG files progressively, as if it were
   a web browser (though the front end is only set up to read from files).
```


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```
 It supports gamma correction, user-specified background colors, and user-
 specified background patterns (for transparent images).  This version is
 for 32-bit Windows; it may compile under 16-bit Windows with a little
 tweaking (or maybe not).  Thanks to Adam Costello and Pieter S. van der
 Meulen for the "diamond" and "radial waves" patterns, respectively.

 to do (someday, maybe):
  - handle quoted command-line args (especially filenames with spaces)
  - finish resizable checkerboard-gradient (sizes 4-128?)
  - use %.1023s to simplify truncation of title-bar string?
  - have minimum window width:  oh well

------------------------------------------------------------------------------

 Changelog:
  - 1.01:  initial public release
  - 1.02:  fixed cut-and-paste error in usage screen (oops...)
  - 1.03:  modified to allow abbreviated options
  - 1.04:  removed bogus extra argument from usage fprintf() [Glenn R-P?];
           fixed command-line parsing bug
  - 1.10:  enabled "message window"/console (thanks to David Geldreich)
  - 1.20:  added runtime MMX-enabling/disabling and new -mmx* options
  - 1.21:  made minor tweak to usage screen to fit within 25-line console
  - 1.22:  added AMD64/EM64T support (__x86_64__)
  - 2.00:  dual-licensed (added GNU GPL)
  - 2.01:  fixed 64-bit typo in readpng2.c
  - 2.02:  fixed improper display of usage screen on PNG error(s); fixed
           unexpected-EOF and file-read-error cases
  - 2.03:  removed runtime MMX-enabling/disabling and obsolete -mmx* options
  - 2.04:  check for integer overflow (Glenn R-P)

------------------------------------------------------------------------------

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          This product includes software developed by Greg Roelofs
          and contributors for the book, "PNG: The Definitive Guide,"
          published by O'Reilly and Associates.
```


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      along with this program; if not, write to the Free Software Foundation,
      Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307  USA

  ------------------------------------------------------------------------------*/

## Files:
contrib/libtests/pngstest-errors.h

/* contrib/libtests/pngstest-errors.h
 *
 * BUILT USING: libpng version 1.6.19beta03 - September 25, 2015
 *
 * This code is released under the libpng license.
 * For conditions of distribution and use, see the disclaimer
 * and license in png.h
 *
 * THIS IS A MACHINE GENERATED FILE: do not edit it directly!
 * Instead run:
 *
 *    pngstest --accumulate
 *
 * on as many PNG files as possible; at least PNGSuite and
 * contrib/libtests/testpngs.
 */

## Files:
pngmem.c

/* pngmem.c - stub functions for memory allocation
 *
 * Copyright (c) 2018 Cosmin Truta
 * Copyright (c) 1998-2002,2004,2006-2014,2016 Glenn Randers-Pehrson
 * Copyright (c) 1996-1997 Andreas Dilger
 * Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.
 *
 * This code is released under the libpng license.
 * For conditions of distribution and use, see the disclaimer
 * and license in png.h
 *
 * This file provides a location for all memory allocation.  Users who
 * need special memory handling are expected to supply replacement
 * functions for png_malloc() and png_free(), and to use
 * png_create_read_struct_2() and png_create_write_struct_2() to
 * identify the replacement functions.
 */

## Files:
```


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```
ltmain.sh

# This file is a library for parsing options in your shell scripts along
# with assorted other useful supporting features that you can make use
# of too.
#
# For the simplest scripts you might need only:
#
#   #!/bin/sh
#   . relative/path/to/funclib.sh
#   . relative/path/to/options-parser
#   scriptversion=1.0
#   func_options ${1+"$@"}
#   eval set dummy "$func_options_result"; shift
#   ...rest of your script...
#
# In order for the '--version' option to work, you will need to have a
# suitably formatted comment like the one at the top of this file
# starting with '# Written by ' and ending with '# Copyright'.
#
# For '-h' and '--help' to work, you will also need a one line
# description of your script's purpose in a comment directly above the
# '# Written by ' line, like the one at the top of this file.
#
# The default options also support '--debug', which will turn on shell
# execution tracing (see the comment above debug_cmd below for another
# use), and '--verbose' and the func_verbose function to allow your script
# to display verbose messages only when your user has specified
# '--verbose'.
#
# After sourcing this file, you can plug in processing for additional
# options by amending the variables from the 'Configuration' section
# below, and following the instructions in the 'Option parsing'
# section further down.

## Files:
pngrio.c

/* pngrio.c - functions for data input
 *
 * Copyright (c) 2018 Cosmin Truta
 * Copyright (c) 1998-2002,2004,2006-2016,2018 Glenn Randers-Pehrson
 * Copyright (c) 1996-1997 Andreas Dilger
 * Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.
 *
 * This code is released under the libpng license.
 * For conditions of distribution and use, see the disclaimer
 * and license in png.h
 *
 * This file provides a location for all input.  Users who need
 * special handling are expected to write a function that has the same
 * arguments as this and performs a similar function, but that possibly
 * has a different input method.  Note that you shouldn't change this
 * function, but rather write a replacement function and then make
 * libpng use it at run time with png_set_read_fn(...).
 */

## Files:
png.h

/* png.h - header file for PNG reference library
 *
```


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```
 * libpng version 1.6.38 - September 14, 2022
 *
 * Copyright (c) 2018-2022 Cosmin Truta
 * Copyright (c) 1998-2002,2004,2006-2018 Glenn Randers-Pehrson
 * Copyright (c) 1996-1997 Andreas Dilger
 * Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.
 *
 * This code is released under the libpng license. (See LICENSE, below.)
 *
 * Authors and maintainers:
 *   libpng versions 0.71, May 1995, through 0.88, January 1996: Guy Schalnat
 *   libpng versions 0.89, June 1996, through 0.96, May 1997: Andreas Dilger
 *   libpng versions 0.97, January 1998, through 1.6.35, July 2018:
 *     Glenn Randers-Pehrson
 *   libpng versions 1.6.36, December 2018, through 1.6.38, September 2022:
 *     Cosmin Truta
 *   See also "Contributing Authors", below.
 */

## Files:
ltmain.sh

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# along with this program.  If not, see <http://www.gnu.org/licenses/>.

## Files:
arm/arm_init.c

/* arm_init.c - NEON optimised filter functions
 *
 * Copyright (c) 2018-2022 Cosmin Truta
 * Copyright (c) 2014,2016 Glenn Randers-Pehrson
 * Written by Mans Rullgard, 2011.
 *
 * This code is released under the libpng license.
 * For conditions of distribution and use, see the disclaimer
 * and license in png.h
 */

## Files:
contrib/libtests/makepng.c

/* Insert standard copyright and licence text. */

## Files:
contrib/oss-fuzz/build.sh
```


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```
#!/bin/bash -eu
# Copyright 2017-2018 Glenn Randers-Pehrson
# Copyright 2016 Google Inc.
#
# Licensed under the Apache License, Version 2.0 (the "License");
# you may not use this file except in compliance with the License.
# You may obtain a copy of the License at
#
#      http://www.apache.org/licenses/LICENSE-2.0
#
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# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
# See the License for the specific language governing permissions and
# limitations under the License.
#
# Last changed in libpng 1.6.35 [July 15, 2018]
#
# Revisions by Glenn Randers-Pehrson, 2017:
# 1. Build only the library, not the tools (changed "make -j$(nproc) all" to
#     "make -j$(nproc) libpng16.la").
# 2. Disabled WARNING and WRITE options in pnglibconf.dfa.
# 3. Build zlib alongside libpng
################################################################################

## Files:
example.c

/* This is an example of how to use libpng to read and write PNG files.
 * The file libpng-manual.txt is much more verbose then this.  If you have
 * not read it, do so first.  This was designed to be a starting point of an
 * implementation.  This is not officially part of libpng, is hereby placed
 * in the public domain, and therefore does not require a copyright notice.
 *
 * This file does not currently compile, because it is missing certain
 * parts, like allocating memory to hold an image.  You will have to
 * supply these parts to get it to compile.  For an example of a minimal
 * working PNG reader/writer, see pngtest.c, included in this distribution;
 * see also the programs in the contrib directory.
 */

## Files:
contrib/libtests/gentests.sh

#!/bin/sh
#
# Copyright (c) 2013 John Cunningham Bowler
#
# This code is released under the libpng license.
# For conditions of distribution and use, see the disclaimer
# and license in png.h
#
# Generate a set of PNG test images.  The images are generated in a
# sub-directory called 'tests' by default, however a command line argument will
# change that name.  The generation requires a built version of makepng in the
# current directory.
#

## Files:
arm/filter_neon_intrinsics.c

/* filter_neon_intrinsics.c - NEON optimised filter functions
```


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```
 *
 * Copyright (c) 2018 Cosmin Truta
 * Copyright (c) 2014,2016 Glenn Randers-Pehrson
 * Written by James Yu <james.yu at linaro.org>, October 2013.
 * Based on filter_neon.S, written by Mans Rullgard, 2011.
 *
 * This code is released under the libpng license.
 * For conditions of distribution and use, see the disclaimer
 * and license in png.h
 */

## Files:
scripts/symbols.c

/* symbols.c - find all exported symbols
 *
 * Last changed in libpng version 1.6.16 [December 22, 2014]
 * Copyright (c) 2011-2014 Glenn Randers-Pehrson
 *
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 * and license in png.h
 */

## Files:
contrib/libtests/makepng.c

/* These are used to insert Copyright and Licence fields, they allow the text to
 * have \n unlike the --insert option.
 */

## Files:
contrib/powerpc-vsx/linux_aux.c

/* contrib/powerpc-vsx/linux_aux.c
 *
 * Copyright (c) 2017 Glenn Randers-Pehrson
 * Written by Vadim Barkov, 2017.
 * Last changed in libpng 1.6.29 [March 16, 2017]
 *
 * This code is released under the libpng license.
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 * and license in png.h
 *
 * STATUS: TESTED
 * BUG REPORTS: png-mng-implement@sourceforge.net
 *
 * png_have_vsx implemented for Linux by using the auxiliary vector mechanism.
 *
 * This code is strict ANSI-C and is probably moderately portable; it does
 * however use <stdio.h> and it assumes that /proc/cpuinfo is never localized.
 */

## Files:
contrib/visupng/PngFile.c

/*-------------------------------------
 *  PNGFILE.C -- Image File Functions
 *-------------------------------------
 *
 * Copyright 2000,2017 Willem van Schaik.
 *
```


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```
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 * and license in png.h
 */

## Files:
pngwutil.c

/* pngwutil.c - utilities to write a PNG file
 *
 * Copyright (c) 2018 Cosmin Truta
 * Copyright (c) 1998-2002,2004,2006-2018 Glenn Randers-Pehrson
 * Copyright (c) 1996-1997 Andreas Dilger
 * Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.
 *
 * This code is released under the libpng license.
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 * and license in png.h
 */

## Files:
pngread.c

/* pngread.c - read a PNG file
 *
 * Copyright (c) 2018-2019 Cosmin Truta
 * Copyright (c) 1998-2002,2004,2006-2018 Glenn Randers-Pehrson
 * Copyright (c) 1996-1997 Andreas Dilger
 * Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.
 *
 * This code is released under the libpng license.
 * For conditions of distribution and use, see the disclaimer
 * and license in png.h
 *
 * This file contains routines that an application calls directly to
 * read a PNG file or stream.
 */

## Files:
contrib/gregbook/readpng.c

/*---------------------------------------------------------------------------

   rpng - simple PNG display program                            readpng.c

  ---------------------------------------------------------------------------

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      along with this program; if not, write to the Free Software Foundation,
      Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307  USA

  ------------------------------------------------------------------------------*/

## Files:
mips/mips_init.c

/* mips_init.c - MSA optimised filter functions
 *
 * Copyright (c) 2018 Cosmin Truta
 * Copyright (c) 2016 Glenn Randers-Pehrson
 * Written by Mandar Sahastrabuddhe, 2016.
 *
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 * and license in png.h
 */

## Files:
ltmain.sh

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# warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

## Files:
contrib/mips-msa/linux.c

/* contrib/mips-msa/linux.c
 *
 * Copyright (c) 2020 Cosmin Truta
 * Copyright (c) 2016 Glenn Randers-Pehrson
```


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```
 * Written by Mandar Sahastrabuddhe, 2016.
 *
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 * and license in png.h
 *
 * SEE contrib/mips-msa/README before reporting bugs
 *
 * STATUS: SUPPORTED
 * BUG REPORTS: png-mng-implement@sourceforge.net
 *
 * png_have_msa implemented for Linux by reading the widely available
 * pseudo-file /proc/cpuinfo.
 *
 * This code is strict ANSI-C and is probably moderately portable; it does
 * however use <stdio.h> and it assumes that /proc/cpuinfo is never localized.
 */

## Files:
pngset.c

/* pngset.c - storage of image information into info struct
 *
 * Copyright (c) 2018-2022 Cosmin Truta
 * Copyright (c) 1998-2018 Glenn Randers-Pehrson
 * Copyright (c) 1996-1997 Andreas Dilger
 * Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.
 *
 * This code is released under the libpng license.
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 * and license in png.h
 *
 * The functions here are used during reads to store data from the file
 * into the info struct, and during writes to store application data
 * into the info struct for writing into the file.  This abstracts the
 * info struct and allows us to change the structure in the future.
 */

## Files:
contrib/tools/makesRGB.c

/* makesRGB.c -- build sRGB-to-linear and linear-to-sRGB conversion tables
 *
 * Last changed in libpng 1.6.0 [February 14, 2013]
 *
 * COPYRIGHT: Written by John Cunningham Bowler, 2013.
 * To the extent possible under law, the author has waived all copyright and
 * related or neighboring rights to this work.  This work is published from:
 * United States.
 *
 * Make a table to convert 8-bit sRGB encoding values into the closest 16-bit
 * linear value.
 *
 * Make two tables to take a linear value scaled to 255*65535 and return an
 * approximation to the 8-bit sRGB encoded value.  Calculate the error in these
 * tables and display it.
 */

## Files:
pngtrans.c

/* pngtrans.c - transforms the data in a row (used by both readers and writers)
```


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```
 *
 * Copyright (c) 2018 Cosmin Truta
 * Copyright (c) 1998-2002,2004,2006-2018 Glenn Randers-Pehrson
 * Copyright (c) 1996-1997 Andreas Dilger
 * Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.
 *
 * This code is released under the libpng license.
 * For conditions of distribution and use, see the disclaimer
 * and license in png.h
 */

## Files:
contrib/libtests/fakepng.c

/* Fake a PNG - just write it out directly.
 *
 * COPYRIGHT: Written by John Cunningham Bowler, 2014.
 * To the extent possible under law, the author has waived all copyright and
 * related or neighboring rights to this work.  This work is published from:
 * United States.
 *
 */

## Files:
contrib/gregbook/rpng-win.c

/*---------------------------------------------------------------------------

   rpng - simple PNG display program                            rpng-win.c

   This program decodes and displays PNG images, with gamma correction and
   optionally with a user-specified background color (in case the image has
   transparency).  It is very nearly the most basic PNG viewer possible.
   This version is for 32-bit Windows; it may compile under 16-bit Windows
   with a little tweaking (or maybe not).

   to do:
    - handle quoted command-line args (especially filenames with spaces)
    - have minimum window width:  oh well
    - use %.1023s to simplify truncation of title-bar string?

  ---------------------------------------------------------------------------

   Changelog:
    - 1.00:  initial public release
    - 1.01:  modified to allow abbreviated options; fixed long/ulong mis-
             match; switched to png_jmpbuf() macro
    - 1.02:  added extra set of parentheses to png_jmpbuf() macro; fixed
             command-line parsing bug
    - 1.10:  enabled "message window"/console (thanks to David Geldreich)
    - 2.00:  dual-licensed (added GNU GPL)
    - 2.01:  fixed improper display of usage screen on PNG error(s)
    - 2.02:  check for integer overflow (Glenn R-P)

  ---------------------------------------------------------------------------

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  ------------------------------------------------------------------------------*/

## Files:
scripts/intprefix.c

/* intprefix.c - generate an unprefixed internal symbol list
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 * and license in png.h
 */

## Files:
contrib/tools/pngfix.c

/* pngfix.c
 *
 * Last changed in libpng 1.6.31 [July 27, 2017]
```


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```
 * Copyright (c) 2014-2017 John Cunningham Bowler
 *
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 *
 * Tool to check and fix the zlib inflate 'too far back' problem.
 * See the usage message for more information.
 */

## Files:
pngtest.c

/* pngtest.c - a simple test program to test libpng
 *
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 *
 * This program reads in a PNG image, writes it out again, and then
 * compares the two files.  If the files are identical, this shows that
 * the basic chunk handling, filtering, and (de)compression code is working
 * properly.  It does not currently test all of the transforms, although
 * it probably should.
 *
 * The program will report "FAIL" in certain legitimate cases:
 * 1) when the compression level or filter selection method is changed.
 * 2) when the maximum IDAT size (PNG_ZBUF_SIZE in pngconf.h) is not 8192.
 * 3) unknown unsafe-to-copy ancillary chunks or unknown critical chunks
 *    exist in the input file.
 * 4) others not listed here...
 * In these cases, it is best to check with another tool such as "pngcheck"
 * to see what the differences between the two files are.
 *
 * If a filename is given on the command-line, then this file is used
 * for the input, rather than the default "pngtest.png".  This allows
 * testing a wide variety of files easily.  You can also test a number
 * of files at once by typing "pngtest -m file1.png file2.png ..."
 */

## Files:
contrib/oss-fuzz/libpng_read_fuzzer.cc

// libpng_read_fuzzer.cc
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// be found in the LICENSE file https://cs.chromium.org/chromium/src/LICENSE

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pngrtran.c

/* pngrtran.c - transforms the data in a row for PNG readers
 *
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 * Copyright (c) 1996-1997 Andreas Dilger
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 *
 * This file contains functions optionally called by an application
 * in order to tell libpng how to handle data when reading a PNG.
 * Transformations that are used in both reading and writing are
 * in pngtrans.c.
 */

## Files:
pngget.c

/* pngget.c - retrieval of values from info struct
 *
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 *
 */

## Files:
contrib/libtests/readpng.c

/* readpng.c
 *
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 *
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 *
 * Load an arbitrary number of PNG files (from the command line, or, if there
 * are no arguments on the command line, from stdin) then run a time test by
 * reading each file by row.  The test does nothing with the read result and
 * does no transforms.  The only output is a time as a floating point number of
 * seconds with 9 decimal digits.
 */

## Files:
pngstruct.h

/* pngstruct.h - header file for PNG reference library
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 */

## Files:
```


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pngpread.c

/* pngpread.c - read a png file in push mode
 *
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 */

## Files:
png.c

/* png.c - location for general purpose libpng functions
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 */

## Files:
contrib/gregbook/writepng.c

/*---------------------------------------------------------------------------

   wpng - simple PNG-writing program                           writepng.c

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  ------------------------------------------------------------------------------*/

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contrib/testpngs/makepngs.sh

# Copyright (c) 2015 John Cunningham Bowler

## Files:
pnginfo.h

/* pnginfo.h - header file for PNG reference library
 *
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 */

## Files:
contrib/gregbook/writepng.h

/*---------------------------------------------------------------------------

   wpng - simple PNG-writing program                          writepng.h

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  ------------------------------------------------------------------------*/

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contrib/visupng/PngFile.h

/* Copyright 2000, Willem van Schaik.*/

## Files:
contrib/tools/pngcp.c

/* pngcp.c
 *
 * Copyright (c) 2016 John Cunningham Bowler
 *
 * Last changed in libpng 1.6.24 [August 4, 2016]
 *
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 * and license in png.h
 *
 * This is an example of copying a PNG without changes using the png_read_png
 * and png_write_png interfaces.  A considerable number of options are provided
 * to manipulate the compression of the PNG data and other compressed chunks.
```


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```
 *
 * For a more extensive example that uses the transforms see
 * contrib/libtests/pngimage.c in the libpng distribution.
 */

## Files:
png.h

/* With all write APIs if image is in one of the linear formats with 16-bit
 * data then setting convert_to_8_bit will cause the output to be an 8-bit PNG
 * gamma encoded according to the sRGB specification, otherwise a 16-bit linear
 * encoded PNG file is written.
 *
 * With color-mapped data formats the colormap parameter point to a color-map
 * with at least image->colormap_entries encoded in the specified format.  If
 * the format is linear the written PNG color-map will be converted to sRGB
 * regardless of the convert_to_8_bit flag.
 *
 * With all APIs row_stride is handled as in the read APIs - it is the spacing
 * from one row to the next in component sized units (1 or 2 bytes) and if
 * negative indicates a bottom-up row layout in the buffer.  If row_stride is
 * zero, libpng will calculate it for you from the image width and number of
 * channels.
 *
 * Note that the write API does not support interlacing, sub-8-bit pixels or
 * most ancillary chunks.  If you need to write text chunks (e.g. for copyright
 * notices) you need to use one of the other APIs.
 */

## Files:
contrib/tools/cvtcolor.c

/*-
 * convert.c
 *
 * Last changed in libpng 1.6.0 [February 14, 2013]
 *
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 *
 * Convert 8-bit sRGB or 16-bit linear values to another format.
 */

## Files:
png.h

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 */

## Files:
scripts/sym.c

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 *
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 *
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 */

## Files:
contrib/gregbook/rpng2-x.c

/*---------------------------------------------------------------------------

   rpng2 - progressive-model PNG display program                  rpng2-x.c

   This program decodes and displays PNG files progressively, as if it were
   a web browser (though the front end is only set up to read from files).
   It supports gamma correction, user-specified background colors, and user-
   specified background patterns (for transparent images).  This version is
   for the X Window System (tested by the author under Unix and by Martin
   Zinser under OpenVMS; may work under OS/2 with a little tweaking).

   Thanks to Adam Costello and Pieter S. van der Meulen for the "diamond"
   and "radial waves" patterns, respectively.

   to do (someday, maybe):
    - fix expose/redraw code:  don't draw entire row if only part exposed
    - 8-bit (colormapped) X support
    - finish resizable checkerboard-gradient (sizes 4-128?)
    - use %.1023s to simplify truncation of title-bar string?

  ---------------------------------------------------------------------------

   Changelog:
    - 1.01:  initial public release
    - 1.02:  modified to allow abbreviated options; fixed char/uchar mismatch
    - 1.10:  added support for non-default visuals; fixed X pixel-conversion
    - 1.11:  added -usleep option for demos; fixed command-line parsing bug
    - 1.12:  added -pause option for demos and testing
    - 1.20:  added runtime MMX-enabling/disabling and new -mmx* options
    - 1.21:  fixed some small X memory leaks (thanks to Franois Petitjean)
    - 1.22:  fixed XFreeGC() crash bug (thanks to Patrick Welche)
    - 1.23:  added -bgpat 0 mode (std white/gray checkerboard, 8x8 squares)
    - 1.30:  added -loop option for -bgpat (ifdef FEATURE_LOOP); fixed bpp =
              24; added support for X resources (thanks to Gerhard Niklasch)
    - 1.31:  added code to skip unused chunks (thanks to Glenn Randers-Pehrson)
    - 1.32:  added AMD64/EM64T support (__x86_64__); added basic expose/redraw
```


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```
           handling
  - 2.00:  dual-licensed (added GNU GPL)
  - 2.01:  fixed 64-bit typo in readpng2.c; fixed -pause usage description
  - 2.02:  fixed improper display of usage screen on PNG error(s); fixed
           unexpected-EOF and file-read-error cases; fixed Trace() cut-and-
           paste bugs
  - 2.03:  deleted runtime MMX-enabling/disabling and obsolete -mmx* options
  - 2.04:  Added "void(foo);" statements to quiet pedantic compiler warnings
           about unused variables (GR-P)
  - 2.05:  Use nanosleep() instead of usleep(), which is deprecated (GR-P).
  - 2.06:  check for integer overflow (Glenn R-P)
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```
## Files:
contrib/gregbook/readpng2.c

/*---------------------------------------------------------------------------

   rpng2 - progressive-model PNG display program                readpng2.c

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  ---------------------------------------------------------------------------

   Changelog:
     2015-11-12 - Check return value of png_get_bKGD() (Glenn R-P)
     2017-04-22 - Guard against integer overflow (Glenn R-P)
```


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```
  ------------------------------------------------------------------------*/

## Files:
contrib/examples/simpleover.c

/*- simpleover
 *
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 * related or neighboring rights to this work.  This work is published from:
 * United States.
 *
 * Read several PNG files, which should have an alpha channel or transparency
 * information, and composite them together to produce one or more 16-bit linear
 * RGBA intermediates.  This involves doing the correct 'over' composition to
 * combine the alpha channels and corresponding data.
 *
 * Finally read an output (background) PNG using the 24-bit RGB format (the
 * PNG will be composited on green (#00ff00) by default if it has an alpha
 * channel), and apply the intermediate image generated above to specified
 * locations in the image.
 *
 * The command line has the general format:
 *
 *    simpleover <background.png> [output.png]
 *        {--sprite=width,height,name {[--at=x,y] {sprite.png}}}
 *        {--add=name {x,y}}
 *
 * The --sprite and --add options may occur multiple times. They are executed
 * in order.  --add may refer to any sprite already read.
 *
 * This code is intended to show how to composite multiple images together
 * correctly.  Apart from the libpng Simplified API the only work done in here
 * is to combine multiple input PNG images into a single sprite; this involves
 * a Porter-Duff 'over' operation and the input PNG images may, as a result,
 * be regarded as being layered one on top of the other with the first (leftmost
 * on the command line) being at the bottom and the last on the top.
 */

## Files:
ci/ci_autotools.sh

# ci_autotools.sh
# Continuously integrate libpng using the GNU Autotools.
#
# Copyright (c) 2019-2022 Cosmin Truta.
#
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# and license in png.h.

## Files:
contrib/examples/pngtopng.c

/*- pngtopng
 *
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 * related or neighboring rights to this work.  This work is published from:
 * United States.
 *
```


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```
 * Last changed in libpng 1.6.29 [March 16, 2017]
 *
 * Read a PNG and write it out in a fixed format, using the 'simplified API'
 * that was introduced in libpng-1.6.0.
 *
 * This sample code is just the code from the top of 'example.c' with some error
 * handling added.  See example.c for more comments.
 */

## Files:
contrib/pngminim/preader/pngusr.h

/* minrdpngconf.h: headers to make a minimal png-read-only library
 *
 * Copyright (c) 2009, 2010-2013 Glenn Randers-Pehrson
 *
 * This code is released under the libpng license.
 * For conditions of distribution and use, see the disclaimer
 * and license in png.h
 *
 * Derived from pngcrush.h, Copyright 1998-2007, Glenn Randers-Pehrson
 */

## Files:
contrib/arm-neon/android-ndk.c

/* contrib/arm-neon/android-ndk.c
 *
 * Copyright (c) 2014 Glenn Randers-Pehrson
 * Written by John Bowler, 2014.
 * Last changed in libpng 1.6.10 [March 6, 2014]
 *
 * This code is released under the libpng license.
 * For conditions of distribution and use, see the disclaimer
 * and license in png.h
 *
 * SEE contrib/arm-neon/README before reporting bugs
 *
 * STATUS: COMPILED, UNTESTED
 * BUG REPORTS: png-mng-implement@sourceforge.net
 *
 * png_have_neon implemented for the Android NDK, see:
 *
 * Documentation:
 *    http://www.kandroid.org/ndk/docs/CPU-ARM-NEON.html
 *    https://code.google.com/p/android/issues/detail?id=49065
 *
 * NOTE: this requires that libpng is built against the Android NDK and linked
 * with an implementation of the Android ARM 'cpu-features' library.  The code
 * has been compiled only, not linked: no version of the library has been found,
 * only the header files exist in the NDK.
 */

## Files:
contrib/libtests/tarith.c

/* tarith.c
 *
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 * Copyright (c) 2011-2013 John Cunningham Bowler
 *
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```


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```
 * For conditions of distribution and use, see the disclaimer
 * and license in png.h
 *
 * Test internal arithmetic functions of libpng.
 *
 * This code must be linked against a math library (-lm), but does not require
 * libpng or zlib to work.  Because it includes the complete source of 'png.c'
 * it tests the code with whatever compiler options are used to build it.
 * Changing these options can substantially change the errors in the
 * calculations that the compiler chooses!
 */

## Files:
contrib/tools/genpng.c

/*- genpng
 *
 * COPYRIGHT: Written by John Cunningham Bowler, 2015.
 * Revised by Glenn Randers-Pehrson, 2017, to add buffer-size check.
 * To the extent possible under law, the authors have waived all copyright and
 * related or neighboring rights to this work.  This work is published from:
 * United States.
 *
 * Generate a PNG with an alpha channel, correctly.
 *
 * This is a test case generator; the resultant PNG files are only of interest
 * to those of us who care about whether the edges of circles are green, red,
 * or yellow.
 *
 * The program generates an RGB+Alpha PNG of a given size containing the given
 * shapes on a transparent background:
 *
 *  genpng width height { shape }
 *    shape ::= color width shape x1 y1 x2 y2
 *
 * 'color' is:
 *
 *  black white red green yellow blue brown purple pink orange gray cyan
 *
 * The point is to have colors that are linguistically meaningful plus that old
 * bugbear of the department store dress murders, Cyan, the only color we argue
 * about.
 *
 * 'shape' is:
 *
 *  circle: an ellipse
 *  square: a rectangle
 *  line: a straight line
 *
 * Each shape is followed by four numbers, these are two points in the output
 * coordinate space (as real numbers) which describe the circle, square, or
 * line.  The shape is filled if it is preceded by 'filled' (not valid for
 * 'line') or is drawn with a line, in which case the width of the line must
 * precede the shape.
 *
 * The whole set of information can be repeated as many times as desired:
 *
 *    shape ::= color width shape x1 y1 x2 y2
 *
 *    color ::= black|white|red|green|yellow|blue
 *    color ::= brown|purple|pink|orange|gray|cyan
 *    width ::= filled
```


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```
 *    width ::= <number>
 *    shape ::= circle|square|line
 *    x1    ::= <number>
 *    x2    ::= <number>
 *    y1    ::= <number>
 *    y2    ::= <number>
 *
 * The output PNG is generated by down-sampling a 4x supersampled image using
 * a bi-cubic filter.  The bi-cubic has a 2 (output) pixel width, so an 8x8
 * array of super-sampled points contribute to each output pixel.  The value of
 * a super-sampled point is found using an unfiltered, aliased, infinite
 * precision image: Each shape from the last to the first is checked to see if
 * the point is in the drawn area and, if it is, the color of the point is the
 * color of the shape and the alpha is 1, if not the previous shape is checked.
 *
 * This is an aliased algorithm because no filtering is done; a point is either
 * inside or outside each shape and 'close' points do not contribute to the
 * sample.  The down-sampling is relied on to correct the error of not using
 * a filter.
 *
 * The line end-caps are 'flat'; they go through the points.  The square line
 * joins are mitres; the outside of the lines are continued to the point of
 * intersection.
 */

## Files:
contrib/tools/png-fix-itxt.c

/* png-fix-itxt version 1.0.0
 *
 * Copyright 2015 Glenn Randers-Pehrson
 * Last changed in libpng 1.6.18 [July 23, 2015]
 *
 * This code is released under the libpng license.
 * For conditions of distribution and use, see the disclaimer
 * and license in png.h
 *
 * Usage:
 *
 *     png-fix-itxt.exe < bad.png > good.png
 *
 * Fixes a PNG file written with libpng-1.6.0 or 1.6.1 that has one or more
 * uncompressed iTXt chunks.  Assumes that the actual length is greater
 * than or equal to the value in the length byte, and that the CRC is
 * correct for the actual length.  This program hunts for the CRC and
 * adjusts the length byte accordingly.  It is not an error to process a
 * PNG file that has no iTXt chunks or one that has valid iTXt chunks;
 * such files will simply be copied.
 *
 * Requires zlib (for crc32 and Z_NULL); build with
 *
 *     gcc -O -o png-fix-itxt png-fix-itxt.c -lz
 *
 * If you need to handle iTXt chunks larger than 500000 kbytes you must
 * rebuild png-fix-itxt with a larger values of MAX_LENGTH (or a smaller value
 * if you know you will never encounter such huge iTXt chunks).
 */

## Files:
pngwrite.c

/* pngwrite.c - general routines to write a PNG file
```


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```
 *
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 * Copyright (c) 1998-2002,2004,2006-2018 Glenn Randers-Pehrson
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 * Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.
 *
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 * and license in png.h
 */

## Files:
contrib/visupng/VisualPng.c

/*-------------------------------------
 *  VisualPng.C -- Shows a PNG image
 *-------------------------------------
 *
 * Copyright 2000,2017 Willem van Schaik.
 *
 * This code is released under the libpng license.
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 * and license in png.h
 */

## Files:
contrib/testpngs/makepngs.sh

# This code is released under the libpng license.
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# and license in png.h

## Files:
pngdebug.h

/* pngdebug.h - Debugging macros for libpng, also used in pngtest.c
 *
 * Copyright (c) 2018 Cosmin Truta
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 * Copyright (c) 1996-1997 Andreas Dilger
 * Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.
 *
 * This code is released under the libpng license.
 * For conditions of distribution and use, see the disclaimer
 * and license in png.h
 */

## Files:
mips/filter_msa_intrinsics.c

/* filter_msa_intrinsics.c - MSA optimised filter functions
 *
 * Copyright (c) 2018 Cosmin Truta
 * Copyright (c) 2016 Glenn Randers-Pehrson
 * Written by Mandar Sahastrabuddhe, August 2016.
 *
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 * and license in png.h
 */

## Files:
```


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```
pngpriv.h

/* pngpriv.h - private declarations for use inside libpng
 *
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 * Copyright (c) 1996-1997 Andreas Dilger
 * Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.
 *
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 * and license in png.h
 */

## Files:
ltmain.sh

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#
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# these licenses when using or redistributing this software or any of
# the files within it.  See the URLs above, or the file `LICENSE`
# included in the Bootstrap distribution for the full license texts.

## Files:
scripts/prefix.c

/* prefix.c - generate an unprefixed symbol list
 *
 * Last changed in libpng version 1.6.16 [December 22, 2014]
 * Copyright (c) 2013-2014 Glenn Randers-Pehrson
 *
 * This code is released under the libpng license.
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 * and license in png.h
 */

## Files:
ci/ci_legacy.sh

# ci_legacy.sh
# Continuously integrate libpng using the legacy makefiles.
#
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#
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# and license in png.h.

## Files:
contrib/libtests/pngvalid.c

/* pngvalid.c - validate libpng by constructing then reading png files.
 *
 * Copyright (c) 2021 Cosmin Truta
 * Copyright (c) 2014-2017 John Cunningham Bowler
 *
```


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```
 * This code is released under the libpng license.
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 * and license in png.h
 *
 * NOTES:
 *   This is a C program that is intended to be linked against libpng.  It
 *   generates bitmaps internally, stores them as PNG files (using the
 *   sequential write code) then reads them back (using the sequential
 *   read code) and validates that the result has the correct data.
 *
 *   The program can be modified and extended to test the correctness of
 *   transformations performed by libpng.
 */

## Files:
contrib/visupng/PngFile.h

/* This code is released under the libpng license.*/

## Files:
contrib/gregbook/readpng2.h

/*---------------------------------------------------------------------------

   rpng2 - progressive-model PNG display program                readpng2.h

  ---------------------------------------------------------------------------

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      Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307  USA

  ------------------------------------------------------------------------------*/

## Files:
scripts/vers.c

/* vers.c - define format of libpng.vers
 *
 * Last changed in libpng version 1.6.16 [December 22, 2014]
 * Copyright (c) 2011-2014 Glenn Randers-Pehrson
 *
 * This code is released under the libpng license.
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 * and license in png.h
 */

## Files:
contrib/gregbook/wpng.c

/*---------------------------------------------------------------------------

   wpng - simple PNG-writing program                                 wpng.c

   This program converts certain NetPBM binary files (grayscale and RGB,
   maxval = 255) to PNG.  Non-interlaced PNGs are written progressively;
   interlaced PNGs are read and written in one memory-intensive blast.

   Thanks to Jean-loup Gailly for providing the necessary trick to read
   interactive text from the keyboard while stdin is redirected.  Thanks
   to Cosmin Truta for Cygwin fixes.

   NOTE:  includes provisional support for PNM type "8" (portable alphamap)
          images, presumed to be a 32-bit interleaved RGBA format; no pro-
          vision for possible interleaved grayscale+alpha (16-bit) format.
          THIS IS UNLIKELY TO BECOME AN OFFICIAL NETPBM ALPHA FORMAT!

   to do:
    - delete output file if quit before calling any writepng routines
    - process backspace with -text option under DOS/Win? (currently get ^H)

  ---------------------------------------------------------------------------

   Changelog:
    - 1.01:  initial public release
    - 1.02:  modified to allow abbreviated options
    - 1.03:  removed extraneous character from usage screen; fixed bug in
             command-line parsing
    - 1.04:  fixed DOS/OS2/Win32 detection, including partial Cygwin fix
             (see http://home.att.net/~perlspinr/diffs/GregBook_cygwin.diff)
    - 2.00:  dual-licensed (added GNU GPL)
```


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```
  - 2.01:  check for integer overflow (Glenn R-P)

      [REPORTED BUG (win32 only):  "contrib/gregbook/wpng.c - cmd line
       dose not work!  In order to do something useful I needed to redirect
       both input and output, with cygwin and with bcc32 as well.  Under
       Linux, the same wpng appears to work fine.  I don't know what is
       the problem."]

 ---------------------------------------------------------------------------

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 ---------------------------------------------------------------------------*/

## Files:
contrib/libtests/pngstest.c
```


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```
/* pngstest.c
 *
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 * Copyright (c) 2013-2017 John Cunningham Bowler
 *
 * This code is released under the libpng license.
 * For conditions of distribution and use, see the disclaimer
 * and license in png.h
 *
 * Test for the PNG 'simplified' APIs.
 */

## Files:
ltmain.sh

# func_version
# ------------
# Echo version message to standard output and exit.
# The version message is extracted from the calling file's header
# comments, with leading '# ' stripped:
#   1. First display the progname and version
#   2. Followed by the header comment line matching  /^# Written by /
#   3. Then a blank line followed by the first following line matching
#      /^# Copyright /
#   4. Immediately followed by any lines between the previous matches,
#      except lines preceding the intervening completely blank line.
# For example, see the header comments of this file.

## Files:
intel/intel_init.c

/* intel_init.c - SSE2 optimized filter functions
 *
 * Copyright (c) 2018 Cosmin Truta
 * Copyright (c) 2016-2017 Glenn Randers-Pehrson
 * Written by Mike Klein and Matt Sarett, Google, Inc.
 * Derived from arm/arm_init.c
 *
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 * and license in png.h
 */

## Files:
contrib/arm-neon/linux.c

/* contrib/arm-neon/linux.c
 *
 * Last changed in libpng 1.6.31 [July 27, 2017]
 * Copyright (c) 2014, 2017 Glenn Randers-Pehrson
 * Written by John Bowler, 2014, 2017.
 *
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 *
 * SEE contrib/arm-neon/README before reporting bugs
 *
 * STATUS: SUPPORTED
 * BUG REPORTS: png-mng-implement@sourceforge.net
 *
 * png_have_neon implemented for Linux by reading the widely available
```


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```
 * pseudo-file /proc/cpuinfo.
 *
 * This code is strict ANSI-C and is probably moderately portable; it does
 * however use <stdio.h> and it assumes that /proc/cpuinfo is never localized.
 */

## Files:
contrib/tools/checksum-icc.c

/* checksum-icc.c
 *
 * Copyright (c) 2013 John Cunningham Bowler
 *
 * Last changed in libpng 1.6.0 [February 14, 2013]
 *
 * This code is released under the libpng license.
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 * and license in png.h
 *
 * Generate crc32 and adler32 checksums of the given input files, used to
 * generate check-codes for use when matching ICC profiles within libpng.
 */

## Files:
contrib/gregbook/rpng-x.c

/*---------------------------------------------------------------------------

   rpng - simple PNG display program                              rpng-x.c

   This program decodes and displays PNG images, with gamma correction and
   optionally with a user-specified background color (in case the image has
   transparency).  It is very nearly the most basic PNG viewer possible.
   This version is for the X Window System (tested by author under Unix and
   by Martin Zinser under OpenVMS; may work under OS/2 with some tweaking).

   to do:
    - 8-bit (colormapped) X support
    - use %.1023s to simplify truncation of title-bar string?

  ---------------------------------------------------------------------------

   Changelog:
    - 1.01:  initial public release
    - 1.02:  modified to allow abbreviated options; fixed long/ulong mis-
             match; switched to png_jmpbuf() macro
    - 1.10:  added support for non-default visuals; fixed X pixel-conversion
    - 1.11:  added extra set of parentheses to png_jmpbuf() macro; fixed
             command-line parsing bug
    - 1.12:  fixed some small X memory leaks (thanks to Franois Petitjean)
    - 1.13:  fixed XFreeGC() crash bug (thanks to Patrick Welche)
    - 1.14:  added support for X resources (thanks to Gerhard Niklasch)
    - 2.00:  dual-licensed (added GNU GPL)
    - 2.01:  fixed improper display of usage screen on PNG error(s)
    - 2.02:  Added "void(argc);" statement to quiet pedantic compiler warnings
             about unused variable (GR-P)
    - 2.03:  check for integer overflow (Glenn R-P)

  ---------------------------------------------------------------------------

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    ------------------------------------------------------------------------*/

## Files:
contrib/libtests/makepng.c

/* Copyright: */

## Files:
contrib/libtests/pngimage.c

/* pngimage.c
 *
 * Copyright (c) 2021 Cosmin Truta
 * Copyright (c) 2015,2016 John Cunningham Bowler
 *
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```


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```
 * and license in png.h
 *
 * Test the png_read_png and png_write_png interfaces.  Given a PNG file load it
 * using png_read_png and then write with png_write_png.  Test all possible
 * transforms.
 */

## Files:
ltmain.sh

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## Files:
contrib/visupng/PngFile.h

/* and license in png.h*/

## Files:
contrib/tools/intgamma.sh

#!/bin/sh
#
# intgamma.sh
#
# Last changed in libpng 1.6.0 [February 14, 2013]
#
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# United States.
#
# Shell script to generate png.c 8-bit and 16-bit log tables (see the code in
# png.c for details).
#
# This script uses the "bc" arbitrary precision calculator to calculate 32-bit
# fixed point values of logarithms appropriate to finding the log of an 8-bit
# (0..255) value and a similar table for the exponent calculation.
#
# "bc" must be on the path when the script is executed, and the math library
# (-lm) must be available
#
# function to print out a list of numbers as integers; the function truncates
# the integers which must be one-per-line

## Files:
pngwio.c

/* pngwio.c - functions for data output
 *
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```
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 *
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 *
 * This file provides a location for all output.  Users who need
 * special handling are expected to write functions that have the same
 * arguments as these and perform similar functions, but that possibly
 * use different output methods.  Note that you shouldn't change these
 * functions, but rather write replacement functions and then change
 * them at run time with png_set_write_fn(...).
 */
```

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```
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/*
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 */
=================================================
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/*
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 *
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 */
```

libssh

```
The download package includes license files for both BSD and LGPL but all headers in the
source files are LGPL
From random source file (server.c in src directory):

/*
 * server.c - functions for creating a SSH server
 *
```


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```
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 *
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 *
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 */


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vp9/ratectrl_rtc.cc
vp9/ratectrl_rtc.h
vpx/vpx_ext_ratectrl.h
vpx_ports/compiler_attributes.h
vpx_ports/mips.h
vpx_ports/mips_cpudetect.c
vpx_ports/static_assert.h

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## Files:
examples/vp9cx_set_ref.c
test/add_noise_test.cc
test/buffer.h
test/decode_svc_test.cc
test/encode_api_test.cc
test/hadamard_test.cc
test/level_test.cc
test/minmax_test.cc
test/realtime_test.cc
test/sum_squares_test.cc
third_party/libwebm/common/file_util.cc
third_party/libwebm/common/file_util.h
third_party/libwebm/common/hdr_util.cc
third_party/libwebm/common/hdr_util.h
tools/tiny_ssim.c
vp9/encoder/x86/vp9_frame_scale_ssse3.c
vpx_dsp/arm/deblock_neon.c
vpx_dsp/arm/hadamard_neon.c
vpx_dsp/arm/highbd_idct4x4_add_neon.c
vpx_dsp/arm/highbd_idct8x8_add_neon.c
vpx_dsp/arm/highbd_intrapred_neon.c
vpx_dsp/arm/highbd_loopfilter_neon.c
vpx_dsp/arm/highbd_vpx_convolve8_neon.c
vpx_dsp/arm/highbd_vpx_convolve_avg_neon.c
vpx_dsp/arm/highbd_vpx_convolve_copy_neon.c
vpx_dsp/arm/highbd_vpx_convolve_neon.c
vpx_dsp/arm/idct32x32_135_add_neon.c
```


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```
vpx_dsp/arm/idct32x32_34_add_neon.c
vpx_dsp/arm/idct_neon.h
vpx_dsp/arm/loopfilter_neon.c
vpx_dsp/arm/transpose_neon.h
vpx_dsp/deblock.c
vpx_dsp/mips/deblock_msa.c
vpx_dsp/postproc.h
vpx_dsp/psnr.c
vpx_dsp/psnr.h
vpx_dsp/sum_squares.c
vpx_dsp/x86/sum_squares_sse2.c

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## Files:
md5_utils.h

This is the header file for the MD5 message-digest algorithm.
The algorithm is due to Ron Rivest.  This code was
written by Colin Plumb in 1993, no copyright is claimed.
This code is in the public domain; do with it what you wish.

Equivalent code is available from RSA Data Security, Inc.
This code has been tested against that, and is equivalent,
except that you don't need to include two pages of legalese
with every copy.

To compute the message digest of a chunk of bytes, declare an
MD5Context structure, pass it to MD5Init, call MD5Update as
needed on buffers full of bytes, and then call MD5Final, which
will fill a supplied 16-byte array with the digest.

Changed so as no longer to depend on Colin Plumb's `usual.h'
header definitions
 - Ian Jackson <ian@chiark.greenend.org.uk>.
Still in the public domain.


## Files:
test/twopass_encoder.sh

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#
#  This file tests the libvpx twopass_encoder example. To add new tests to this
#  file, do the following:
#    1. Write a shell function (this is your test).
#    2. Add the function to twopass_encoder_tests (on a new line).
#
```


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```
## Files:
vp8/common/loongarch/idct_lsx.c
vp8/encoder/loongarch/dct_lsx.c
vp8/encoder/loongarch/encodeopt_lsx.c
vp8/encoder/loongarch/vp8_quantize_lsx.c
vp9/encoder/arm/neon/vp9_dct_neon.c
vp9/encoder/arm/neon/vp9_diamond_search_sad_neon.c
vp9/encoder/x86/vp9_quantize_ssse3.c
vpx_dsp/arm/fdct32x32_neon.h
vpx_dsp/arm/fdct4x4_neon.h
vpx_dsp/arm/fdct8x8_neon.h
vpx_dsp/arm/fdct_neon.h
vpx_dsp/arm/highbd_quantize_neon.c
vpx_dsp/arm/highbd_sad_neon.c
vpx_dsp/arm/highbd_variance_neon.c
vpx_dsp/arm/highbd_variance_neon_dotprod.c
vpx_dsp/loongarch/avg_lsx.c
vpx_dsp/loongarch/avg_pred_lsx.c
vpx_dsp/loongarch/bitdepth_conversion_lsx.h
vpx_dsp/loongarch/fwd_dct32x32_lsx.c
vpx_dsp/loongarch/fwd_txfm_lsx.c
vpx_dsp/loongarch/fwd_txfm_lsx.h
vpx_dsp/loongarch/idct32x32_lsx.c
vpx_dsp/loongarch/loopfilter_4_lsx.c
vpx_dsp/loongarch/loopfilter_8_lsx.c
vpx_dsp/loongarch/loopfilter_lsx.h
vpx_dsp/loongarch/quantize_lsx.c
vpx_dsp/loongarch/sad_lsx.c
vpx_dsp/loongarch/sub_pixel_variance_lsx.c
vpx_dsp/loongarch/subtract_lsx.c
vpx_dsp/loongarch/txfm_macros_lsx.h
vpx_dsp/loongarch/variance_lsx.c
vpx_dsp/loongarch/variance_lsx.h
vpx_dsp/loongarch/vpx_convolve8_avg_horiz_lsx.c
vpx_dsp/loongarch/vpx_convolve8_avg_lsx.c
vpx_dsp/loongarch/vpx_convolve8_avg_vert_lsx.c
vpx_dsp/loongarch/vpx_convolve8_horiz_lsx.c
vpx_dsp/loongarch/vpx_convolve8_lsx.c
vpx_dsp/loongarch/vpx_convolve8_vert_lsx.c
vpx_dsp/loongarch/vpx_convolve_avg_lsx.c
vpx_dsp/loongarch/vpx_convolve_copy_lsx.c
vpx_dsp/loongarch/vpx_convolve_lsx.h
vpx_dsp/x86/highbd_quantize_intrin_avx2.c
vpx_dsp/x86/highbd_sad4d_avx2.c
vpx_dsp/x86/highbd_sad_avx2.c
vpx_dsp/x86/quantize_avx2.c
vpx_dsp/x86/subtract_avx2.c
vpx_util/loongson_intrinsics.h

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## Files:
vpx_util/loongson_intrinsics.h
```


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Contributed by Shiyou Yin <yinshiyou-hf@loongson.cn>
               Xiwei Gu   <guxiwei-hf@loongson.cn>
               Lu Wang    <wanglu@loongson.cn>

This file is a header file for loongarch builtin extension.


## Files:
test/vp9_c_vs_simd_encode.sh

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#
#  This script checks the bit exactness between C and SIMD
#  implementations of VP9 encoder.
#


## Files:
vp8/common/loongarch/loopfilter_filters_lsx.c

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## Files:
y4minput.c
y4minput.h

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Based on code from the OggTheora software codec source code,
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```


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```
## Files:
test/comp_avg_pred_test.cc
test/dct_partial_test.cc
test/dct_test.cc
test/vp9_motion_vector_test.cc
test/vp9_scale_test.cc
vp8/common/mips/mmi/copymem_mmi.c
vp8/common/mips/mmi/dequantize_mmi.c
vp8/common/mips/mmi/idct_blk_mmi.c
vp8/common/mips/mmi/idctllm_mmi.c
vp8/common/mips/mmi/loopfilter_filters_mmi.c
vp8/common/mips/mmi/sixtap_filter_mmi.c
vp8/encoder/ethreading.h
vp8/encoder/mips/mmi/dct_mmi.c
vp8/encoder/mips/mmi/vp8_quantize_mmi.c
vp8/encoder/picklpf.h
vp8/encoder/temporal_filter.h
vp9/encoder/arm/neon/vp9_denoiser_neon.c
vp9/encoder/arm/neon/vp9_frame_scale_neon.c
vp9/encoder/vp9_frame_scale.c
vp9/encoder/vp9_job_queue.h
vp9/encoder/vp9_multi_thread.c
vp9/encoder/vp9_multi_thread.h
vp9/encoder/x86/temporal_filter_sse4.c
vp9/encoder/x86/vp9_quantize_avx2.c
vpx_dsp/arm/avg_pred_neon.c
vpx_dsp/arm/fdct16x16_neon.c
vpx_dsp/arm/fdct16x16_neon.h
vpx_dsp/arm/fdct32x32_neon.c
vpx_dsp/arm/fdct4x4_neon.c
vpx_dsp/arm/fdct_partial_neon.c
vpx_dsp/arm/highbd_idct16x16_add_neon.c
vpx_dsp/arm/highbd_idct32x32_1024_add_neon.c
vpx_dsp/arm/highbd_idct32x32_135_add_neon.c
vpx_dsp/arm/highbd_idct32x32_34_add_neon.c
vpx_dsp/arm/highbd_idct32x32_add_neon.c
vpx_dsp/arm/mem_neon.h
vpx_dsp/arm/quantize_neon.c
vpx_dsp/arm/sum_neon.h
vpx_dsp/arm/vpx_scaled_convolve8_neon.c
vpx_dsp/mips/sad_mmi.c
vpx_dsp/mips/subtract_mmi.c
vpx_dsp/mips/sum_squares_msa.c
vpx_dsp/mips/variance_mmi.c
vpx_dsp/ppc/bitdepth_conversion_vsx.h
vpx_dsp/ppc/hadamard_vsx.c
vpx_dsp/ppc/intrapred_vsx.c
vpx_dsp/ppc/sad_vsx.c
vpx_dsp/ppc/transpose_vsx.h
vpx_dsp/ppc/types_vsx.h
vpx_dsp/ppc/variance_vsx.c
vpx_dsp/ppc/vpx_convolve_vsx.c
vpx_dsp/skin_detection.c
vpx_dsp/skin_detection.h
vpx_dsp/x86/avg_intrin_avx2.c
vpx_dsp/x86/avg_pred_sse2.c
vpx_dsp/x86/bitdepth_conversion_avx2.h
vpx_dsp/x86/bitdepth_conversion_sse2.h
vpx_dsp/x86/convolve_avx2.h
vpx_dsp/x86/convolve_ssse3.h
vpx_dsp/x86/highbd_convolve_avx2.c
```


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```
vpx_dsp/x86/highbd_idct16x16_add_sse4.c
vpx_dsp/x86/highbd_idct32x32_add_sse4.c
vpx_dsp/x86/highbd_idct4x4_add_sse4.c
vpx_dsp/x86/highbd_idct8x8_add_sse4.c
vpx_dsp/x86/highbd_intrapred_intrin_sse2.c
vpx_dsp/x86/highbd_intrapred_intrin_ssse3.c
vpx_dsp/x86/highbd_inv_txfm_sse4.h
vpx_dsp/x86/inv_txfm_ssse3.c
vpx_dsp/x86/inv_txfm_ssse3.h
vpx_dsp/x86/mem_sse2.h
vpx_dsp/x86/quantize_avx.c
vpx_dsp/x86/quantize_sse2.h
vpx_dsp/x86/quantize_ssse3.c
vpx_dsp/x86/quantize_ssse3.h
vpx_dsp/x86/sad4d_avx512.c
vpx_ports/asmdefs_mmi.h
vpx_ports/ppc.h
vpx_ports/ppc_cpudetect.c
vpx_util/vpx_atomics.h

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## Files:
build/make/gen_msvs_vcxproj.sh

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#


## Files:
vpx_dsp/psnrhvs.c

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This code was originally written by: Gregory Maxwell, at the Daala
project.


## Files:
test/vpx_image_test.cc

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## Files:
third_party/libyuv/include/libyuv/rotate_row.h
third_party/libyuv/include/libyuv/scale_row.h
third_party/libyuv/source/rotate_win.cc
third_party/libyuv/source/scale_common.cc
third_party/libyuv/source/scale_gcc.cc
third_party/libyuv/source/scale_win.cc

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## Files:
vpx_ports/loongarch.h
vpx_ports/loongarch_cpudetect.c

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Contributed by Lu Wang <wanglu@loongson.cn>

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## Files:
test/postproc.sh

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#
#  This file tests the libvpx postproc example code. To add new tests to this
#  file, do the following:
#    1. Write a shell function (this is your test).
#    2. Add the function to postproc_tests (on a new line).
#


## Files:
test/tools_common.sh
```


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#
#  This file contains shell code shared by test scripts for libvpx tools.


## Files:
third_party/libyuv/source/compare_msa.cc

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## Files:
build/make/msvs_common.sh

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#


## Files:
third_party/libyuv/include/libyuv/convert_argb.h
third_party/libyuv/include/libyuv/convert_from_argb.h
third_party/libyuv/include/libyuv/mjpeg_decoder.h
third_party/libyuv/include/libyuv/rotate_argb.h
third_party/libyuv/include/libyuv/scale_argb.h
third_party/libyuv/include/libyuv/version.h
third_party/libyuv/source/compare_common.cc
third_party/libyuv/source/compare_gcc.cc
third_party/libyuv/source/compare_neon.cc
third_party/libyuv/source/compare_neon64.cc
third_party/libyuv/source/compare_win.cc
third_party/libyuv/source/convert_from.cc
third_party/libyuv/source/convert_from_argb.cc
third_party/libyuv/source/mjpeg_decoder.cc
third_party/libyuv/source/mjpeg_validate.cc
third_party/libyuv/source/rotate_argb.cc
third_party/libyuv/source/row_any.cc

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## Files:
test/vpx_temporal_svc_encoder.sh

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#
#  This file tests the libvpx vpx_temporal_svc_encoder example. To add new
#  tests to this file, do the following:
#    1. Write a shell function (this is your test).
#    2. Add the function to vpx_tsvc_encoder_tests (on a new line).
#


## Files:
test/android/get_files.py

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This simple script pulls test files from the webm homepage
It is intelligent enough to only pull files if
  1) File / test_data folder does not exist
  2) SHA mismatch


## Files:
test/active_map_refresh_test.cc
test/test_intra_pred_speed.cc
test/vp9_arf_freq_test.cc
test/vp9_skip_loopfilter_test.cc
vp8/common/mips/msa/bilinear_filter_msa.c
vp8/common/mips/msa/copymem_msa.c
vp8/common/mips/msa/idct_msa.c
vp8/common/mips/msa/loopfilter_filters_msa.c
vp8/common/mips/msa/mfqe_msa.c
vp8/common/mips/msa/sixtap_filter_msa.c
vp8/common/mips/msa/vp8_macros_msa.h
vp8/common/vp8_skin_detection.c
vp8/common/vp8_skin_detection.h
vp8/encoder/mips/msa/dct_msa.c
vp8/encoder/mips/msa/denoising_msa.c
vp8/encoder/mips/msa/encodeopt_msa.c
vp8/encoder/mips/msa/quantize_msa.c
vp8/encoder/mips/msa/temporal_filter_msa.c
vp9/common/mips/msa/vp9_idct16x16_msa.c
vp9/common/mips/msa/vp9_idct4x4_msa.c
vp9/common/mips/msa/vp9_idct8x8_msa.c
```


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```
vp9/common/mips/msa/vp9_mfqe_msa.c
vp9/encoder/arm/neon/vp9_error_neon.c
vp9/encoder/mips/msa/vp9_error_msa.c
vp9/encoder/mips/msa/vp9_fdct16x16_msa.c
vp9/encoder/mips/msa/vp9_fdct4x4_msa.c
vp9/encoder/mips/msa/vp9_fdct8x8_msa.c
vp9/encoder/mips/msa/vp9_fdct_msa.h
vp9/encoder/vp9_noise_estimate.c
vp9/encoder/vp9_skin_detection.c
vp9/encoder/vp9_skin_detection.h
vp9/vp9_dx_iface.h
vpx_dsp/add_noise.c
vpx_dsp/arm/avg_neon.c
vpx_dsp/arm/fdct8x8_neon.c
vpx_dsp/arm/sad4d_neon.c
vpx_dsp/fwd_txfm.c
vpx_dsp/fwd_txfm.h
vpx_dsp/intrapred.c
vpx_dsp/inv_txfm.c
vpx_dsp/loopfilter.c
vpx_dsp/mips/add_noise_msa.c
vpx_dsp/mips/avg_msa.c
vpx_dsp/mips/common_dspr2.c
vpx_dsp/mips/fwd_dct32x32_msa.c
vpx_dsp/mips/fwd_txfm_msa.c
vpx_dsp/mips/fwd_txfm_msa.h
vpx_dsp/mips/idct16x16_msa.c
vpx_dsp/mips/idct32x32_msa.c
vpx_dsp/mips/idct4x4_msa.c
vpx_dsp/mips/idct8x8_msa.c
vpx_dsp/mips/intrapred16_dspr2.c
vpx_dsp/mips/intrapred4_dspr2.c
vpx_dsp/mips/intrapred8_dspr2.c
vpx_dsp/mips/intrapred_msa.c
vpx_dsp/mips/inv_txfm_msa.h
vpx_dsp/mips/itrans16_dspr2.c
vpx_dsp/mips/itrans4_dspr2.c
vpx_dsp/mips/itrans8_dspr2.c
vpx_dsp/mips/loopfilter_16_msa.c
vpx_dsp/mips/loopfilter_4_msa.c
vpx_dsp/mips/loopfilter_8_msa.c
vpx_dsp/mips/loopfilter_msa.h
vpx_dsp/mips/macros_msa.h
vpx_dsp/mips/sad_msa.c
vpx_dsp/mips/sub_pixel_variance_msa.c
vpx_dsp/mips/subtract_msa.c
vpx_dsp/mips/txfm_macros_msa.h
vpx_dsp/mips/variance_msa.c
vpx_dsp/mips/vpx_convolve8_avg_horiz_msa.c
vpx_dsp/mips/vpx_convolve8_avg_msa.c
vpx_dsp/mips/vpx_convolve8_avg_vert_msa.c
vpx_dsp/mips/vpx_convolve8_horiz_msa.c
vpx_dsp/mips/vpx_convolve8_msa.c
vpx_dsp/mips/vpx_convolve8_vert_msa.c
vpx_dsp/mips/vpx_convolve_avg_msa.c
vpx_dsp/mips/vpx_convolve_copy_msa.c
vpx_dsp/mips/vpx_convolve_msa.h
vpx_dsp/ppc/inv_txfm_vsx.c
vpx_dsp/quantize.c
vpx_dsp/quantize.h
vpx_dsp/sad.c
vpx_dsp/subtract.c
```


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```
vpx_dsp/txfm_common.h
vpx_dsp/variance.h
vpx_dsp/vpx_dsp_common.h
vpx_dsp/vpx_dsp_rtcd.c
vpx_dsp/vpx_filter.h
vpx_dsp/x86/convolve.h
vpx_dsp/x86/fwd_txfm_sse2.c
vpx_dsp/x86/highbd_idct16x16_add_sse2.c
vpx_dsp/x86/highbd_idct32x32_add_sse2.c
vpx_dsp/x86/highbd_idct4x4_add_sse2.c
vpx_dsp/x86/highbd_idct8x8_add_sse2.c
vpx_dsp/x86/highbd_inv_txfm_sse2.h
vpx_dsp/x86/highbd_quantize_intrin_sse2.c
vpx_dsp/x86/inv_txfm_sse2.c
vpx_dsp/x86/inv_txfm_sse2.h
vpx_dsp/x86/quantize_sse2.c
vpx_dsp/x86/transpose_sse2.h
vpx_dsp/x86/txfm_common_sse2.h
vpx_ports/msvc.h
vpx_ports/system_state.h
vpx_ports/vpx_once.h
vpx_util/vpx_write_yuv_frame.c
vpx_util/vpx_write_yuv_frame.h

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## Files:
vp9/encoder/vp9_alt_ref_aq.c
vp9/encoder/vp9_alt_ref_aq.h

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## Files:
third_party/libyuv/include/libyuv/basic_types.h
third_party/libyuv/include/libyuv/compare.h
third_party/libyuv/include/libyuv/convert.h
third_party/libyuv/include/libyuv/convert_from.h
third_party/libyuv/include/libyuv/cpu_id.h
third_party/libyuv/include/libyuv/planar_functions.h
third_party/libyuv/include/libyuv/rotate.h
third_party/libyuv/include/libyuv/row.h
third_party/libyuv/include/libyuv/scale.h
third_party/libyuv/include/libyuv/video_common.h
third_party/libyuv/source/compare.cc
third_party/libyuv/source/convert.cc
third_party/libyuv/source/convert_argb.cc
third_party/libyuv/source/convert_jpeg.cc
third_party/libyuv/source/convert_to_argb.cc
```


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```
third_party/libyuv/source/convert_to_i420.cc
third_party/libyuv/source/cpu_id.cc
third_party/libyuv/source/planar_functions.cc
third_party/libyuv/source/rotate.cc
third_party/libyuv/source/rotate_common.cc
third_party/libyuv/source/rotate_neon.cc
third_party/libyuv/source/row_common.cc
third_party/libyuv/source/row_gcc.cc
third_party/libyuv/source/row_neon.cc
third_party/libyuv/source/row_win.cc
third_party/libyuv/source/scale.cc
third_party/libyuv/source/scale_argb.cc
third_party/libyuv/source/scale_neon.cc
third_party/libyuv/source/video_common.cc

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## Files:
test/non_greedy_mv_test.cc
test/simple_encode_test.cc
test/timestamp_test.cc
test/yuv_temporal_filter_test.cc
vp8/common/arm/loopfilter_arm.h
vp9/encoder/vp9_blockiness.h
vp9/encoder/vp9_non_greedy_mv.c
vp9/encoder/vp9_non_greedy_mv.h
vp9/encoder/x86/highbd_temporal_filter_sse4.c
vp9/simple_encode.cc
vp9/simple_encode.h
vp9/vp9_cx_iface.h
vpx_util/vpx_debug_util.c
vpx_util/vpx_debug_util.h
vpx_util/vpx_timestamp.h

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## Files:
vpx_util/vpx_thread.c
vpx_util/vpx_thread.h

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--------------------------------------------------------------------------------
```


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```
Multi-threaded worker

Original source:
 https://chromium.googlesource.com/webm/libwebp


## Files:
examples/svc_context.h
examples/svc_encodeframe.c
ivfdec.c
ivfdec.h
ivfenc.c
ivfenc.h
test/clear_system_state.h
test/codec_factory.h
test/decode_perf_test.cc
test/error_resilience_test.cc
test/partial_idct_test.cc
test/predict_test.cc
test/test_vector_test.cc
test/test_vectors.cc
test/test_vectors.h
test/tile_independence_test.cc
test/user_priv_test.cc
test/vp8_decrypt_test.cc
test/vp8_fdct4x4_test.cc
test/vp9_decrypt_test.cc
test/vp9_lossless_test.cc
test/vp9_thread_test.cc
vp9/common/mips/dspr2/vp9_itrans16_dspr2.c
vp9/common/mips/dspr2/vp9_itrans4_dspr2.c
vp9/common/mips/dspr2/vp9_itrans8_dspr2.c
vp9/common/vp9_scale.c
vp9/common/vp9_scale.h
vp9/common/vp9_scan.h
vp9/decoder/vp9_dsubexp.h
vp9/encoder/vp9_aq_360.c
vp9/encoder/vp9_aq_360.h
vp9/encoder/vp9_aq_variance.c
vp9/encoder/vp9_aq_variance.h
vp9/encoder/vp9_subexp.c
vp9/encoder/vp9_subexp.h
vp9/vp9_iface_common.h
vpx_dsp/arm/vpx_convolve_neon.c
vpx_dsp/bitreader_buffer.c
vpx_dsp/bitreader_buffer.h
vpx_dsp/bitwriter_buffer.c
vpx_dsp/bitwriter_buffer.h
vpx_dsp/mips/common_dspr2.h
vpx_dsp/mips/convolve2_avg_dspr2.c
vpx_dsp/mips/convolve2_avg_horiz_dspr2.c
vpx_dsp/mips/convolve2_dspr2.c
vpx_dsp/mips/convolve2_horiz_dspr2.c
vpx_dsp/mips/convolve2_vert_dspr2.c
vpx_dsp/mips/convolve8_avg_dspr2.c
vpx_dsp/mips/convolve8_avg_horiz_dspr2.c
vpx_dsp/mips/convolve8_dspr2.c
vpx_dsp/mips/convolve8_horiz_dspr2.c
vpx_dsp/mips/convolve8_vert_dspr2.c
vpx_dsp/mips/convolve_common_dspr2.h
vpx_dsp/mips/inv_txfm_dspr2.h
```


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```
vpx_dsp/mips/itrans32_cols_dspr2.c
vpx_dsp/mips/itrans32_dspr2.c
vpx_dsp/mips/loopfilter_filters_dspr2.c
vpx_dsp/mips/loopfilter_filters_dspr2.h
vpx_dsp/mips/loopfilter_macros_dspr2.h
vpx_dsp/mips/loopfilter_masks_dspr2.h
vpx_dsp/mips/loopfilter_mb_dspr2.c
vpx_dsp/mips/loopfilter_mb_horiz_dspr2.c
vpx_dsp/mips/loopfilter_mb_vert_dspr2.c
vpx_dsp/prob.c
vpx_dsp/prob.h
vpx_dsp/vpx_convolve.c
vpx_dsp/vpx_convolve.h
vpx_scale/mips/dspr2/yv12extend_dspr2.c
vpxenc.h
vpxstats.c
vpxstats.h
warnings.c
warnings.h
webmdec.cc
webmdec.h
webmenc.h

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## Files:
examples/vpx_dec_fuzzer.cc
test/bench.cc
test/bench.h
test/decode_corrupted.cc
test/svc_end_to_end_test.cc
test/svc_test.cc
test/svc_test.h
vp8/common/x86/bilinear_filter_sse2.c
vp9/common/arm/neon/vp9_highbd_iht16x16_add_neon.c
vp9/common/arm/neon/vp9_highbd_iht4x4_add_neon.c
vp9/common/arm/neon/vp9_highbd_iht8x8_add_neon.c
vp9/common/arm/neon/vp9_iht16x16_add_neon.c
vp9/common/arm/neon/vp9_iht_neon.h
vp9/common/ppc/vp9_idct_vsx.c
vp9/common/x86/vp9_highbd_iht16x16_add_sse4.c
vp9/common/x86/vp9_highbd_iht4x4_add_sse4.c
vp9/common/x86/vp9_highbd_iht8x8_add_sse4.c
vp9/decoder/vp9_job_queue.c
vp9/decoder/vp9_job_queue.h
vp9/encoder/ppc/vp9_quantize_vsx.c
vp9/encoder/vp9_partition_models.h
vpx_dsp/arm/highbd_idct_neon.h
vpx_dsp/arm/sum_squares_neon.c
vpx_dsp/arm/vpx_convolve8_neon_asm.c
vpx_dsp/arm/vpx_convolve8_neon_asm.h
vpx_dsp/mips/vpx_convolve8_mmi.c
vpx_dsp/ppc/deblock_vsx.c
vpx_dsp/ppc/fdct32x32_vsx.c
vpx_dsp/ppc/inv_txfm_vsx.h
```


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```
vpx_dsp/ppc/quantize_vsx.c
vpx_dsp/ppc/subtract_vsx.c
vpx_dsp/ppc/txfm_common_vsx.h
vpx_dsp/x86/convolve_sse2.h
vpx_dsp/x86/post_proc_sse2.c
vpx_dsp/x86/vpx_subpixel_4t_intrin_sse2.c
vpx_ports/emms_mmx.c

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## Files:
test/decode_with_drops.sh

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#
#  This file tests the libvpx decode_with_drops example. To add new tests to
#  this file, do the following:
#    1. Write a shell function (this is your test).
#    2. Add the function to decode_with_drops_tests (on a new line).
#


## Files:
tools/cpplint.py

means no copyright line was found


## Files:
test/simple_decoder.sh

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#
#  This file tests the libvpx simple_decoder example code. To add new tests to
#  this file, do the following:
#    1. Write a shell function (this is your test).
#    2. Add the function to simple_decoder_tests (on a new line).
#


## Files:
```


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```
tools/cpplint.py

Logs an error if no Copyright message appears at the top of the file.


## Files:
vpx_dsp/fastssim.c

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This code was originally written by: Nathan E. Egge, at the Daala
project.


## Files:
vp8/common/filter.h
vp8/common/rtcd.c
vp8/decoder/ec_types.h
vp8/decoder/error_concealment.c
vp8/decoder/error_concealment.h
vp8/encoder/lookahead.c
vp8/encoder/lookahead.h
vp9/common/vp9_filter.h
vp9/common/vp9_rtcd.c
vp9/encoder/vp9_lookahead.c
vp9/encoder/vp9_lookahead.h
vpx_scale/vpx_scale_rtcd.c

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## Files:
vp9/encoder/vp9_encoder.c

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## Files:
tools/diff.py
tools/intersect-diffs.py
tools/lint-hunks.py
tools/wrap-commit-msg.py

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#


## Files:
third_party/libyuv/source/rotate_neon64.cc
third_party/libyuv/source/row_neon64.cc
third_party/libyuv/source/scale_neon64.cc

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## Files:
tools/set_analyzer_env.sh

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#
#  Sourcing this file sets environment variables to simplify setting up
#  sanitizer builds and testing.


## Files:
test/vp8_ratectrl_rtc_test.cc
vp8/vp8_ratectrl_rtc.cc
vp8/vp8_ratectrl_rtc.h
vpx/internal/vpx_ratectrl_rtc.h
vpx_dsp/arm/sad4d_neon_dotprod.c
vpx_dsp/arm/sad_neon_dotprod.c
vpx_dsp/arm/variance_neon_dotprod.c
vpx_dsp/arm/vpx_convolve8_neon_dotprod.c

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## Files:
test/simple_encoder.sh

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#
#  This file tests the libvpx simple_encoder example. To add new tests to this
#  file, do the following:
#    1. Write a shell function (this is your test).
#    2. Add the function to simple_encoder_tests (on a new line).
#


## Files:
vp8/common/loongarch/sixtap_filter_lsx.c
vpx_dsp/loongarch/intrapred_lsx.c

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## Files:
vpx_dsp/loongarch/loopfilter_16_lsx.c

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## Files:
test/set_maps.sh

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#
#  This file tests the libvpx set_maps example. To add new tests to this file,
#  do the following:
#    1. Write a shell function (this is your test).
#    2. Add the function to set_maps_tests (on a new line).
#


## Files:
vp9/vp9_iface_common.c
```


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## Files:
test/decode_to_md5.sh

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#
#  This file tests the libvpx decode_to_md5 example. To add new tests to this
#  file, do the following:
#    1. Write a shell function (this is your test).
#    2. Add the function to decode_to_md5_tests (on a new line).
#


## Files:
third_party/libyuv/source/rotate_any.cc
third_party/libyuv/source/rotate_gcc.cc
third_party/libyuv/source/scale_any.cc

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## Files:
test/vpxenc.sh

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#
#  This file tests vpxenc using hantro_collage_w352h288.yuv as input. To add
#  new tests to this file, do the following:
#    1. Write a shell function (this is your test).
#    2. Add the function to vpxenc_tests (on a new line).
#
```


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```
## Files:
tools/3D-Reconstruction/MotionEST/Anandan.py
tools/3D-Reconstruction/MotionEST/Exhaust.py
tools/3D-Reconstruction/MotionEST/GroundTruth.py
tools/3D-Reconstruction/MotionEST/HornSchunck.py
tools/3D-Reconstruction/MotionEST/MotionEST.py
tools/3D-Reconstruction/MotionEST/SearchSmooth.py
tools/3D-Reconstruction/MotionEST/Util.py
tools/3D-Reconstruction/genY4M/genY4M.py
tools/non_greedy_mv/non_greedy_mv.py

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#


## Files:
examples/resize_util.c
examples/vp9_lossless_encoder.c
rate_hist.c
rate_hist.h
test/active_map_test.cc
test/android/scrape_gtest_log.py
test/byte_alignment_test.cc
test/decode_api_test.cc
test/encode_perf_test.cc
test/external_frame_buffer_test.cc
test/frame_size_tests.cc
test/invalid_file_test.cc
test/lpf_test.cc
test/quantize_test.cc
test/vp8_denoiser_sse2_test.cc
test/vp8_fragments_test.cc
test/vp9_block_error_test.cc
test/vp9_denoiser_test.cc
test/vp9_encoder_parms_get_to_decoder.cc
test/vp9_end_to_end_test.cc
test/vp9_ethread_test.cc
test/vp9_intrapred_test.cc
test/vp9_quantize_test.cc
test/vp9_roi_test.cc
test/vpx_scale_test.cc
test/vpx_scale_test.h
test/yuv_video_source.h
video_common.h
video_reader.c
video_reader.h
video_writer.c
video_writer.h
vp8/common/arm/neon/bilinearpredict_neon.c
vp8/common/arm/neon/copymem_neon.c
vp8/common/arm/neon/dc_only_idct_add_neon.c
vp8/common/arm/neon/dequant_idct_neon.c
vp8/common/arm/neon/dequantizeb_neon.c
vp8/common/arm/neon/iwalsh_neon.c
vp8/common/arm/neon/loopfiltersimplehorizontaledge_neon.c
vp8/common/arm/neon/loopfiltersimpleverticaledge_neon.c
```


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```
vp8/common/arm/neon/mbloopfilter_neon.c
vp8/common/arm/neon/shortidct4x4llm_neon.c
vp8/common/arm/neon/sixtappredict_neon.c
vp8/common/arm/neon/vp8_loopfilter_neon.c
vp8/encoder/arm/neon/fastquantizeb_neon.c
vp8/encoder/arm/neon/shortfdct_neon.c
vp8/encoder/arm/neon/vp8_shortwalsh4x4_neon.c
vp9/common/arm/neon/vp9_iht4x4_add_neon.c
vp9/common/arm/neon/vp9_iht8x8_add_neon.c
vp9/common/vp9_blockd.c
vp9/common/vp9_frame_buffers.c
vp9/common/vp9_frame_buffers.h
vp9/common/vp9_mfqe.c
vp9/common/vp9_mfqe.h
vp9/common/vp9_thread_common.c
vp9/common/vp9_thread_common.h
vp9/encoder/arm/neon/vp9_quantize_neon.c
vp9/encoder/vp9_aq_complexity.c
vp9/encoder/vp9_aq_complexity.h
vp9/encoder/vp9_aq_cyclicrefresh.c
vp9/encoder/vp9_aq_cyclicrefresh.h
vp9/encoder/vp9_blockiness.c
vp9/encoder/vp9_context_tree.c
vp9/encoder/vp9_context_tree.h
vp9/encoder/vp9_cost.c
vp9/encoder/vp9_cost.h
vp9/encoder/vp9_ethread.c
vp9/encoder/vp9_ethread.h
vp9/encoder/vp9_pickmode.c
vp9/encoder/vp9_pickmode.h
vp9/encoder/vp9_resize.c
vp9/encoder/vp9_resize.h
vp9/encoder/vp9_svc_layercontext.c
vp9/encoder/vp9_svc_layercontext.h
vp9/encoder/x86/vp9_denoiser_sse2.c
vp9/encoder/x86/vp9_error_avx2.c
vp9/encoder/x86/vp9_highbd_block_error_intrin_sse2.c
vp9/encoder/x86/vp9_quantize_sse2.c
vpx/vpx_frame_buffer.h
vpx_dsp/arm/idct16x16_1_add_neon.c
vpx_dsp/arm/idct16x16_add_neon.c
vpx_dsp/arm/idct32x32_1_add_neon.c
vpx_dsp/arm/idct32x32_add_neon.c
vpx_dsp/arm/idct4x4_1_add_neon.c
vpx_dsp/arm/idct4x4_add_neon.c
vpx_dsp/arm/idct8x8_1_add_neon.c
vpx_dsp/arm/idct8x8_add_neon.c
vpx_dsp/arm/intrapred_neon.c
vpx_dsp/arm/sad_neon.c
vpx_dsp/arm/subpel_variance_neon.c
vpx_dsp/arm/subtract_neon.c
vpx_dsp/arm/variance_neon.c
vpx_dsp/arm/vpx_convolve8_neon.c
vpx_dsp/arm/vpx_convolve8_neon.h
vpx_dsp/arm/vpx_convolve_avg_neon.c
vpx_dsp/arm/vpx_convolve_copy_neon.c
vpx_dsp/avg.c
vpx_dsp/ssim.h
vpx_dsp/x86/avg_intrin_sse2.c
vpx_dsp/x86/fwd_txfm_impl_sse2.h
vpx_dsp/x86/fwd_txfm_sse2.h
vpx_dsp/x86/highbd_loopfilter_sse2.c
```


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```
vpx_dsp/x86/highbd_variance_sse2.c
vpx_dsp/x86/sad4d_avx2.c
webmenc.cc
y4menc.c
y4menc.h

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## Files:
test/vpxdec.sh

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#
#  This file tests vpxdec. To add new tests to this file, do the following:
#    1. Write a shell function (this is your test).
#    2. Add the function to vpxdec_tests (on a new line).
#


## Files:
test/init_vpx_test.cc
test/init_vpx_test.h
vp9/encoder/arm/neon/vp9_highbd_error_neon.c
vp9/encoder/arm/neon/vp9_highbd_temporal_filter_neon.c
vp9/encoder/arm/neon/vp9_temporal_filter_neon.c
vp9/encoder/vp9_firstpass_stats.h
vp9/encoder/vp9_temporal_filter_constants.h
vp9/encoder/vp9_tpl_model.c
vp9/encoder/vp9_tpl_model.h
vpx/src/vpx_tpl.c
vpx/vpx_tpl.h
vpx_dsp/arm/highbd_avg_neon.c
vpx_dsp/arm/highbd_avg_pred_neon.c
vpx_dsp/arm/highbd_hadamard_neon.c
vpx_dsp/arm/highbd_sad4d_neon.c
vpx_dsp/arm/highbd_sse_neon.c
vpx_dsp/arm/highbd_subpel_variance_neon.c
vpx_dsp/arm/sse_neon.c
vpx_dsp/arm/sse_neon_dotprod.c
vpx_dsp/arm/vpx_convolve8_neon_i8mm.c
vpx_dsp/arm/vpx_convolve_neon_dotprod.c
vpx_dsp/arm/vpx_convolve_neon_i8mm.c
vpx_dsp/sse.c
vpx_dsp/x86/avg_pred_avx2.c
vpx_dsp/x86/inv_txfm_avx2.c
vpx_dsp/x86/sse_avx2.c
vpx_dsp/x86/sse_sse4.c
vpx_ports/aarch32_cpudetect.c
```


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```
vpx_ports/aarch64_cpudetect.c
vpx_ports/arm_cpudetect.h

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## Files:
test/stress.sh

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#
#  This file performs a stress test. It runs (STRESS_ONEPASS_MAX_JOBS,
#  default=5) one, (STRESS_TWOPASS_MAX_JOBS, default=5) two pass &
#  (STRESS_RT_MAX_JOBS, default=5) encodes and (STRESS_<codec>_DECODE_MAX_JOBS,
#  default=30) decodes in parallel.


## Files:
test/vp8_multi_resolution_encoder.sh

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#
#  This file tests the libvpx vp8_multi_resolution_encoder example. To add new
#  tests to this file, do the following:
#    1. Write a shell function (this is your test).
#    2. Add the function to vp8_mre_tests (on a new line).
#


## Files:
build/make/armlink_adapter.sh
build/make/gen_asm_deps.sh
build/make/gen_msvs_def.sh
build/make/gen_msvs_sln.sh
build/make/version.sh

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#


## Files:
vp9/decoder/vp9_decodemv.c
vp9/decoder/vp9_dsubexp.c

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## Files:
test/cx_set_ref.sh

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#
#  This file tests the libvpx cx_set_ref example. To add new tests to this
#  file, do the following:
#    1. Write a shell function (this is your test).
#    2. Add the function to cx_set_ref_tests (on a new line).
#


## Files:
examples/vp9_spatial_svc_encoder.c
examples/vpx_temporal_svc_encoder.c
test/acm_random.h
test/alt_ref_aq_segment_test.cc
test/altref_test.cc
test/aq_segment_test.cc
test/avg_test.cc
test/blockiness_test.cc
test/borders_test.cc
test/config_test.cc
test/consistency_test.cc
test/cpu_speed_test.cc
test/cq_test.cc
test/dct16x16_test.cc
test/dct32x32_test.cc
test/decode_test_driver.cc
test/decode_test_driver.h
test/encode_test_driver.cc
test/encode_test_driver.h
test/fdct8x8_test.cc
test/i420_video_source.h
test/idct8x8_test.cc
test/ivf_video_source.h
test/keyframe_test.cc
```


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```
test/md5_helper.h
test/pp_filter_test.cc
test/register_state_check.h
test/resize_test.cc
test/sad_test.cc
test/set_roi.cc
test/superframe_test.cc
test/svc_datarate_test.cc
test/test_libvpx.cc
test/util.h
test/variance_test.cc
test/video_source.h
test/vp8_boolcoder_test.cc
test/vp8_datarate_test.cc
test/vp9_boolcoder_test.cc
test/vp9_datarate_test.cc
test/vp9_subtract_test.cc
test/webm_video_source.h
test/y4m_test.cc
test/y4m_video_source.h
third_party/libwebm/common/webmids.h
third_party/libwebm/mkvmuxer/mkvmuxer.cc
third_party/libwebm/mkvmuxer/mkvmuxer.h
third_party/libwebm/mkvmuxer/mkvmuxertypes.h
third_party/libwebm/mkvmuxer/mkvmuxerutil.cc
third_party/libwebm/mkvmuxer/mkvmuxerutil.h
third_party/libwebm/mkvmuxer/mkvwriter.cc
third_party/libwebm/mkvmuxer/mkvwriter.h
third_party/libwebm/mkvparser/mkvparser.cc
third_party/libwebm/mkvparser/mkvparser.h
vp8/common/mfqe.c
vp8/common/mips/dspr2/dequantize_dspr2.c
vp8/common/mips/dspr2/filter_dspr2.c
vp8/common/mips/dspr2/idct_blk_dspr2.c
vp8/common/mips/dspr2/idctllm_dspr2.c
vp8/common/mips/dspr2/reconinter_dspr2.c
vp8/common/mips/dspr2/vp8_loopfilter_filters_dspr2.c
vp8/encoder/arm/neon/denoising_neon.c
vp8/encoder/dct_value_cost.h
vp8/encoder/dct_value_tokens.h
vp8/encoder/denoising.c
vp8/encoder/denoising.h
vp8/encoder/encodeframe.h
vp8/encoder/x86/denoising_sse2.c
vp8/encoder/x86/quantize_sse4.c
vp8/encoder/x86/vp8_enc_stubs_sse2.c
vp8/encoder/x86/vp8_quantize_sse2.c
vp8/encoder/x86/vp8_quantize_ssse3.c
vp9/common/vp9_mvref_common.c
vp9/common/vp9_mvref_common.h
vp9/common/vp9_pred_common.c
vp9/common/vp9_pred_common.h
vp9/common/vp9_seg_common.h
vp9/common/x86/vp9_idct_intrin_sse2.c
vp9/encoder/vp9_denoiser.c
vp9/encoder/vp9_denoiser.h
vp9/encoder/vp9_noise_estimate.h
vp9/encoder/vp9_segmentation.c
vp9/encoder/x86/vp9_dct_intrin_sse2.c
vpx_dsp/x86/fwd_dct32x32_impl_avx2.h
vpx_dsp/x86/fwd_dct32x32_impl_sse2.h
vpx_dsp/x86/fwd_txfm_avx2.c
```


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```
vpx_dsp/x86/sad_avx2.c
vpx_dsp/x86/variance_avx2.c
vpx_ports/emmintrin_compat.h

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## Files:
vpx_util/endian_inl.h

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--------------------------------------------------------------------------------

Endian related functions.


## Files:
args.c
args.h
examples/decode_to_md5.c
examples/decode_with_drops.c
examples/postproc.c
examples/set_maps.c
examples/simple_decoder.c
examples/simple_encoder.c
examples/twopass_encoder.c
examples/vp8_multi_resolution_encoder.c
examples/vp8cx_set_ref.c
test/convolve_test.cc
test/idct_test.cc
third_party/libwebm/mkvparser/mkvreader.cc
third_party/libwebm/mkvparser/mkvreader.h
tools_common.c
tools_common.h
vp8/common/alloccommon.c
vp8/common/alloccommon.h
vp8/common/arm/loopfilter_arm.c
vp8/common/arm/neon/idct_blk_neon.c
vp8/common/blockd.c
vp8/common/blockd.h
vp8/common/coefupdateprobs.h
vp8/common/common.h
vp8/common/context.c
vp8/common/debugmodes.c
vp8/common/default_coef_probs.h
vp8/common/dequantize.c
vp8/common/entropy.c
vp8/common/entropy.h
vp8/common/entropymode.c
vp8/common/entropymode.h
```


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```
vp8/common/entropymv.c
vp8/common/entropymv.h
vp8/common/extend.c
vp8/common/extend.h
vp8/common/filter.c
vp8/common/findnearmv.c
vp8/common/findnearmv.h
vp8/common/generic/systemdependent.c
vp8/common/header.h
vp8/common/idct_blk.c
vp8/common/idctllm.c
vp8/common/invtrans.h
vp8/common/loopfilter.h
vp8/common/loopfilter_filters.c
vp8/common/mbpitch.c
vp8/common/modecont.c
vp8/common/modecont.h
vp8/common/mv.h
vp8/common/onyx.h
vp8/common/onyxc_int.h
vp8/common/onyxd.h
vp8/common/postproc.c
vp8/common/postproc.h
vp8/common/ppflags.h
vp8/common/quant_common.c
vp8/common/quant_common.h
vp8/common/reconinter.c
vp8/common/reconinter.h
vp8/common/reconintra.c
vp8/common/reconintra.h
vp8/common/reconintra4x4.c
vp8/common/reconintra4x4.h
vp8/common/setupintrarecon.c
vp8/common/setupintrarecon.h
vp8/common/swapyv12buffer.c
vp8/common/swapyv12buffer.h
vp8/common/systemdependent.h
vp8/common/threading.h
vp8/common/treecoder.c
vp8/common/treecoder.h
vp8/common/vp8_entropymodedata.h
vp8/common/vp8_loopfilter.c
vp8/common/x86/idct_blk_mmx.c
vp8/common/x86/idct_blk_sse2.c
vp8/common/x86/loopfilter_x86.c
vp8/common/x86/vp8_asm_stubs.c
vp8/decoder/dboolhuff.c
vp8/decoder/dboolhuff.h
vp8/decoder/decodeframe.c
vp8/decoder/decodemv.c
vp8/decoder/decodemv.h
vp8/decoder/decoderthreading.h
vp8/decoder/detokenize.c
vp8/decoder/detokenize.h
vp8/decoder/onyxd_if.c
vp8/decoder/onyxd_int.h
vp8/decoder/threading.c
vp8/decoder/treereader.h
vp8/encoder/bitstream.c
vp8/encoder/bitstream.h
vp8/encoder/block.h
vp8/encoder/boolhuff.c
```


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```
vp8/encoder/boolhuff.h
vp8/encoder/copy_c.c
vp8/encoder/dct.c
vp8/encoder/defaultcoefcounts.h
vp8/encoder/encodeframe.c
vp8/encoder/encodeintra.c
vp8/encoder/encodeintra.h
vp8/encoder/encodemb.c
vp8/encoder/encodemb.h
vp8/encoder/encodemv.c
vp8/encoder/encodemv.h
vp8/encoder/ethreading.c
vp8/encoder/firstpass.c
vp8/encoder/firstpass.h
vp8/encoder/mcomp.c
vp8/encoder/mcomp.h
vp8/encoder/modecosts.c
vp8/encoder/modecosts.h
vp8/encoder/mr_dissim.c
vp8/encoder/mr_dissim.h
vp8/encoder/onyx_if.c
vp8/encoder/onyx_int.h
vp8/encoder/pickinter.c
vp8/encoder/pickinter.h
vp8/encoder/picklpf.c
vp8/encoder/quantize.h
vp8/encoder/ratectrl.c
vp8/encoder/ratectrl.h
vp8/encoder/rdopt.c
vp8/encoder/rdopt.h
vp8/encoder/segmentation.c
vp8/encoder/segmentation.h
vp8/encoder/temporal_filter.c
vp8/encoder/tokenize.c
vp8/encoder/tokenize.h
vp8/encoder/treewriter.c
vp8/encoder/treewriter.h
vp8/encoder/vp8_quantize.c
vp8/vp8_cx_iface.c
vp8/vp8_dx_iface.c
vp9/common/vp9_alloccommon.c
vp9/common/vp9_alloccommon.h
vp9/common/vp9_blockd.h
vp9/common/vp9_common.h
vp9/common/vp9_common_data.c
vp9/common/vp9_common_data.h
vp9/common/vp9_debugmodes.c
vp9/common/vp9_entropy.c
vp9/common/vp9_entropy.h
vp9/common/vp9_entropymode.c
vp9/common/vp9_entropymode.h
vp9/common/vp9_entropymv.c
vp9/common/vp9_entropymv.h
vp9/common/vp9_enums.h
vp9/common/vp9_filter.c
vp9/common/vp9_idct.c
vp9/common/vp9_idct.h
vp9/common/vp9_loopfilter.c
vp9/common/vp9_loopfilter.h
vp9/common/vp9_mv.h
vp9/common/vp9_onyxc_int.h
vp9/common/vp9_postproc.c
```


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vp9/common/vp9_postproc.h
vp9/common/vp9_ppflags.h
vp9/common/vp9_quant_common.c
vp9/common/vp9_quant_common.h
vp9/common/vp9_reconinter.c
vp9/common/vp9_reconinter.h
vp9/common/vp9_reconintra.c
vp9/common/vp9_reconintra.h
vp9/common/vp9_scan.c
vp9/common/vp9_seg_common.c
vp9/common/vp9_tile_common.c
vp9/common/vp9_tile_common.h
vp9/decoder/vp9_decodeframe.c
vp9/decoder/vp9_decodeframe.h
vp9/decoder/vp9_decodemv.h
vp9/decoder/vp9_decoder.c
vp9/decoder/vp9_decoder.h
vp9/decoder/vp9_detokenize.c
vp9/decoder/vp9_detokenize.h
vp9/encoder/vp9_bitstream.c
vp9/encoder/vp9_bitstream.h
vp9/encoder/vp9_block.h
vp9/encoder/vp9_dct.c
vp9/encoder/vp9_encodeframe.c
vp9/encoder/vp9_encodeframe.h
vp9/encoder/vp9_encodemb.c
vp9/encoder/vp9_encodemb.h
vp9/encoder/vp9_encodemv.c
vp9/encoder/vp9_encodemv.h
vp9/encoder/vp9_encoder.h
vp9/encoder/vp9_extend.c
vp9/encoder/vp9_extend.h
vp9/encoder/vp9_firstpass.c
vp9/encoder/vp9_firstpass.h
vp9/encoder/vp9_mbgraph.c
vp9/encoder/vp9_mbgraph.h
vp9/encoder/vp9_mcomp.c
vp9/encoder/vp9_mcomp.h
vp9/encoder/vp9_picklpf.c
vp9/encoder/vp9_picklpf.h
vp9/encoder/vp9_quantize.c
vp9/encoder/vp9_quantize.h
vp9/encoder/vp9_ratectrl.c
vp9/encoder/vp9_ratectrl.h
vp9/encoder/vp9_rd.c
vp9/encoder/vp9_rd.h
vp9/encoder/vp9_rdopt.c
vp9/encoder/vp9_rdopt.h
vp9/encoder/vp9_segmentation.h
vp9/encoder/vp9_speed_features.c
vp9/encoder/vp9_speed_features.h
vp9/encoder/vp9_temporal_filter.c
vp9/encoder/vp9_temporal_filter.h
vp9/encoder/vp9_tokenize.c
vp9/encoder/vp9_tokenize.h
vp9/encoder/vp9_treewriter.c
vp9/encoder/vp9_treewriter.h
vp9/vp9_cx_iface.c
vp9/vp9_dx_iface.c
vpx/internal/vpx_codec_internal.h
vpx/src/vpx_codec.c
vpx/src/vpx_decoder.c
```


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```
vpx/src/vpx_encoder.c
vpx/src/vpx_image.c
vpx/vp8.h
vpx/vp8cx.h
vpx/vp8dx.h
vpx/vpx_codec.h
vpx/vpx_decoder.h
vpx/vpx_encoder.h
vpx/vpx_image.h
vpx/vpx_integer.h
vpx_dsp/bitreader.c
vpx_dsp/bitreader.h
vpx_dsp/bitwriter.c
vpx_dsp/bitwriter.h
vpx_dsp/inv_txfm.h
vpx_dsp/ssim.c
vpx_dsp/variance.c
vpx_dsp/x86/loopfilter_avx2.c
vpx_dsp/x86/loopfilter_sse2.c
vpx_dsp/x86/variance_sse2.c
vpx_dsp/x86/vpx_subpixel_8t_intrin_avx2.c
vpx_dsp/x86/vpx_subpixel_8t_intrin_ssse3.c
vpx_mem/include/vpx_mem_intrnl.h
vpx_mem/vpx_mem.c
vpx_mem/vpx_mem.h
vpx_ports/arm.h
vpx_ports/bitops.h
vpx_ports/mem.h
vpx_ports/mem_ops.h
vpx_ports/mem_ops_aligned.h
vpx_ports/vpx_timer.h
vpx_ports/x86.h
vpx_scale/generic/gen_scalers.c
vpx_scale/generic/vpx_scale.c
vpx_scale/generic/yv12config.c
vpx_scale/generic/yv12extend.c
vpx_scale/vpx_scale.h
vpx_scale/yv12config.h
vpxdec.c
vpxenc.c

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## Files:
md5_utils.c

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Equivalent code is available from RSA Data Security, Inc.
This code has been tested against that, and is equivalent,
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```
To compute the message digest of a chunk of bytes, declare an
MD5Context structure, pass it to MD5Init, call MD5Update as
needed on buffers full of bytes, and then call MD5Final, which
will fill a supplied 16-byte array with the digest.

Changed so as no longer to depend on Colin Plumb's `usual.h' header
definitions
 - Ian Jackson <ian@chiark.greenend.org.uk>.
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## Files:
test/resize_util.sh

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#
#  This file tests the libvpx resize_util example code. To add new tests to
#  this file, do the following:
#    1. Write a shell function (this is your test).
#    2. Add the function to resize_util_tests (on a new line).
#


## Files:
test/examples.sh

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#  This file runs all of the tests for the libvpx examples.
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## Files:
build/make/iosbuild.sh

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#
#
# This script generates 'VPX.framework'. An iOS app can encode and decode VPx
# video by including 'VPX.framework'.
```


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```
#
# Run iosbuild.sh to create 'VPX.framework' in the current directory.
#
```

libXcomposite

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libXdamage

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Lightweight TCP/IP stack (LWIP)

```
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Linux Kernel 5.10.110

```
vmwgfx kernel drivers

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*****************************************************************
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Patents/Applications covered
US-2008-0201137-A1
US-2010-0174535-A1
US-2010-0174534-A1
US-2010-0174547-A1
US-2010-0174532-A1
US-2010-0174537-A1
US-2010-0174542-A1
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US-2010-0174538-A1
US-2011-0077940-A1
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When it comes to patents, it is difficult to say much without making lawyers nervous. However, we can say something quite direct: external counsel Dergosits & Noah has advised us that Opus can be implemented without the need to license the patents disclosed by Qualcomm, Huawei, France Telecom, or Ericsson. We can also say that Mozilla is confident enough in Opus to ship it to hundreds of millions of Firefox users. Similarly, Cisco and Google are also supporting Opus in some products. More companies are expected to do the same soon.
Mozilla invested significant legal resources into avoiding known patent thickets when

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designing Opus. Whenever possible, we used processes and methods that have been long
known in the field and which are considered patent-free. In addition, we filed numerous
patent applications on the new things we invented to help defend the Opus community. As
a result, Opus is available on a royalty-free basis and can be deployed by anyone,
including other open-source projects. Everyone knows this is an incredibly challenging
legal environment to operate in, but we think we've succeeded.
LIBJPEG-TURBO README FILE:
***************************************************************************
**     Background
***************************************************************************
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2,
NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64,
and ARM systems.  On such systems, libjpeg-turbo is generally 2-4x as fast as
libjpeg, all else being equal.  On other types of systems, libjpeg-turbo can
still outperform libjpeg by a significant amount, by virtue of its
highly-optimized Huffman coding routines.  In many cases, the performance of
libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.
libjpeg-turbo implements both the traditional libjpeg API as well as the less
powerful but more straightforward TurboJPEG API.  libjpeg-turbo also features
colorspace extensions that allow it to compress from/decompress to 32-bit and
big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java
interface.
libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated
derivative of libjpeg v6b developed by Miyasaka Masaru.  The TigerVNC and
VirtualGL projects made numerous enhancements to the codec in 2009, and in
early 2010, libjpeg-turbo spun off into an independent project, with the goal
of making high-speed JPEG compression/decompression technology available to a
broader range of users and developers.
***************************************************************************
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***************************************************************************
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***************************************************************************
**     Using libjpeg-turbo
***************************************************************************
libjpeg-turbo includes two APIs that can be used to compress and decompress
JPEG images:
  TurboJPEG API:  This API provides an easy-to-use interface for compressing
  and decompressing JPEG images in memory.  It also provides some functionality
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  that would not be straightforward to achieve using the underlying libjpeg
  API, such as generating planar YUV images and performing multiple
  simultaneous lossless transforms on an image.  The Java interface for
  libjpeg-turbo is written on top of the TurboJPEG API.
  libjpeg API:  This is the de facto industry-standard API for compressing and
  decompressing JPEG images.  It is more difficult to use than the TurboJPEG
  API but also more powerful.  The libjpeg API implementation in libjpeg-turbo
  is both API/ABI-compatible and mathematically compatible with libjpeg v6b.
  It can also optionally be configured to be API/ABI-compatible with libjpeg v7
  and v8 (see below.)
There is no significant performance advantage to either API when both are used
to perform similar operations.
====================
Colorspace Extensions
====================
libjpeg-turbo includes extensions that allow JPEG images to be compressed
directly from (and decompressed directly to) buffers that use BGR, BGRX,
RGBX, XBGR, and XRGB pixel ordering.  This is implemented with ten new
colorspace constants:
  JCS_EXT_RGB   /* red/green/blue */
  JCS_EXT_RGBX  /* red/green/blue/x */
  JCS_EXT_BGR   /* blue/green/red */
  JCS_EXT_BGRX  /* blue/green/red/x */
  JCS_EXT_XBGR  /* x/blue/green/red */
  JCS_EXT_XRGB  /* x/red/green/blue */
  JCS_EXT_RGBA  /* red/green/blue/alpha */
  JCS_EXT_BGRA  /* blue/green/red/alpha */
  JCS_EXT_ABGR  /* alpha/blue/green/red */
  JCS_EXT_ARGB  /* alpha/red/green/blue */
Setting cinfo.in_color_space (compression) or cinfo.out_color_space
(decompression) to one of these values will cause libjpeg-turbo to read the
red, green, and blue values from (or write them to) the appropriate position in
the pixel when compressing from/decompressing to an RGB buffer.
Your application can check for the existence of these extensions at compile
time with:
  #ifdef JCS_EXTENSIONS
At run time, attempting to use these extensions with a libjpeg implementation
that does not support them will result in a "Bogus input colorspace" error.
Applications can trap this error in order to test whether run-time support is
available for the colorspace extensions.
When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the
X byte is undefined, and in order to ensure the best performance, libjpeg-turbo
can set that byte to whatever value it wishes.  If an application expects the X
byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA,
JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB.  When these colorspace constants
are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.
Your application can check for the existence of the alpha channel colorspace
extensions at compile time with:
  #ifdef JCS_ALPHA_EXTENSIONS
jcstest.c, located in the libjpeg-turbo source tree, demonstrates how to check
for the existence of the colorspace extensions at compile time and run time.
==================================
libjpeg v7 and v8 API/ABI Emulation
==================================
With libjpeg v7 and v8, new features were added that necessitated extending the
compression and decompression structures.  Unfortunately, due to the exposed
nature of those structures, extending them also necessitated breaking backward
ABI compatibility with previous libjpeg releases.  Thus, programs that were
built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is
based on the libjpeg v6b code base.  Although libjpeg v7 and v8 are not
as widely used as v6b, enough programs (including a few Linux distros) made
the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs
```


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in libjpeg-turbo.  It should be noted, however, that this feature was added
primarily so that applications that had already been compiled to use libjpeg
v7+ could take advantage of accelerated baseline JPEG encoding/decoding
without recompiling.  libjpeg-turbo does not claim to support all of the
libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all
cases (see below.)
By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an
argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version
of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs
that are built against libjpeg v7 or v8 can be run with libjpeg-turbo.  The
following section describes which libjpeg v7+ features are supported and which
aren't.
Support for libjpeg v7 and v8 Features:
---------------------------------------
Fully supported:
-- libjpeg: IDCT scaling extensions in decompressor
   libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8,
   1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4
   and 1/2 are SIMD-accelerated.)
-- libjpeg: arithmetic coding
-- libjpeg: In-memory source and destination managers
   See notes below.
-- cjpeg: Separate quality settings for luminance and chrominance
   Note that the libpjeg v7+ API was extended to accommodate this feature only
   for convenience purposes.  It has always been possible to implement this
   feature with libjpeg v6b (see rdswitch.c for an example.)
-- cjpeg: 32-bit BMP support
-- cjpeg: -rgb option
-- jpegtran: lossless cropping
-- jpegtran: -perfect option
-- jpegtran: forcing width/height when performing lossless crop
-- rdjpgcom: -raw option
-- rdjpgcom: locale awareness
Not supported:
NOTE:  As of this writing, extensive research has been conducted into the
usefulness of DCT scaling as a means of data reduction and SmartScale as a
means of quality improvement.  The reader is invited to peruse the research at
http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions,
but it is the general belief of our project that these features have not
demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.
-- libjpeg: DCT scaling in compressor
   cinfo.scale_num and cinfo.scale_denom are silently ignored.
   There is no technical reason why DCT scaling could not be supported when
   emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see
   below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and
   8/9 would be available, which is of limited usefulness.
-- libjpeg: SmartScale
   cinfo.block_size is silently ignored.
   SmartScale is an extension to the JPEG format that allows for DCT block
   sizes other than 8x8.  Providing support for this new format would be
   feasible (particularly without full acceleration.)  However, until/unless
   the format becomes either an official industry standard or, at minimum, an
   accepted solution in the community, we are hesitant to implement it, as
   there is no sense of whether or how it might change in the future.  It is
   our belief that SmartScale has not demonstrated sufficient usefulness as a
   lossless format nor as a means of quality enhancement, and thus, our primary
   interest in providing this feature would be as a means of supporting
   additional DCT scaling factors.
-- libjpeg: Fancy downsampling in compressor
   cinfo.do_fancy_downsampling is silently ignored.
   This requires the DCT scaling feature, which is not supported.
-- jpegtran: Scaling
```


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   This requires both the DCT scaling and SmartScale features, which are not
   supported.
-- Lossless RGB JPEG files
   This requires the SmartScale feature, which is not supported.
What About libjpeg v9?
----------------------
libjpeg v9 introduced yet another field to the JPEG compression structure
(color_transform), thus making the ABI backward incompatible with that of
libjpeg v8.  This new field was introduced solely for the purpose of supporting
lossless SmartScale encoding.  Further, there was actually no reason to extend
the API in this manner, as the color transform could have just as easily been
activated by way of a new JPEG colorspace constant, thus preserving backward
ABI compatibility.
Our research (see link above) has shown that lossless SmartScale does not
generally accomplish anything that can't already be accomplished better with
existing, standard lossless formats.  Thus, at this time, it is our belief that
there is not sufficient technical justification for software to upgrade from
libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification
for us to emulate the libjpeg v9 ABI.
===================================
In-Memory Source/Destination Managers
===================================
By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and
jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI.
Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8
API/ABI emulation in order to use the in-memory source/destination managers,
but several projects requested that those functions be included when emulating
the libjpeg v6b API/ABI as well.  This allows the use of those functions by
programs that need them without breaking ABI compatibility for programs that
don't, and it allows those functions to be provided in the "official"
libjpeg-turbo binaries.
Those who are concerned about maintaining strict conformance with the libjpeg
v6b or v7 API can pass an argument of --without-mem-srcdst to configure or
an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo.
This will restore the pre-1.3 behavior, in which jpeg_mem_src() and
jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.
On Un*x systems, including the in-memory source/destination managers changes
the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI
emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.
Note that, on most Un*x systems, the dynamic linker will not look for a
function in a library until that function is actually used.  Thus, if a program
is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(),
that program will not fail if run against an older version of libjpeg-turbo or
against libjpeg v7- until the program actually tries to call jpeg_mem_src() or
jpeg_mem_dest().  Such is not the case on Windows.  If a program is built
against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(),
then it must use the libjpeg-turbo 1.3+ DLL at run time.
Both cjpeg and djpeg have been extended to allow testing the in-memory
source/destination manager functions.  See their respective man pages for more
details.
********************************************************************************
**     Mathematical Compatibility
********************************************************************************
For the most part, libjpeg-turbo should produce identical output to libjpeg
v6b.  The one exception to this is when using the floating point DCT/IDCT, in
which case the outputs of libjpeg v6b and libjpeg-turbo can differ for the
following reasons:
-- The SSE/SSE2 floating point DCT implementation in libjpeg-turbo is ever so
   slightly more accurate than the implementation in libjpeg v6b, but not by
   any amount perceptible to human vision (generally in the range of 0.01 to
   0.08 dB gain in PNSR.)
-- When not using the SIMD extensions, libjpeg-turbo uses the more accurate
```


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   (and slightly faster) floating point IDCT algorithm introduced in libjpeg
   v8a as opposed to the algorithm used in libjpeg v6b.  It should be noted,
   however, that this algorithm basically brings the accuracy of the floating
   point IDCT in line with the accuracy of the slow integer IDCT.  The floating
   point DCT/IDCT algorithms are mainly a legacy feature, and they do not
   produce significantly more accuracy than the slow integer algorithms (to put
   numbers on this, the typical difference in PNSR between the two algorithms
   is less than 0.10 dB, whereas changing the quality level by 1 in the upper
   range of the quality scale is typically more like a 1.0 dB difference.)
-- When not using the SIMD extensions, then the accuracy of the floating point
   DCT/IDCT can depend on the compiler and compiler settings.
While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is
still using the same algorithms as libjpeg v6b, so there are several specific
cases in which libjpeg-turbo cannot be expected to produce the same output as
libjpeg v8:
-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8
   implements those scaling algorithms differently than libjpeg v6b does, and
   libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.
-- When using chrominance subsampling, because libjpeg v8 implements this
   with its DCT/IDCT scaling algorithms rather than with a separate
   downsampling/upsampling algorithm.  In our testing, the subsampled/upsampled
   output of libjpeg v8 is less accurate than that of libjpeg v6b for this
   reason.
-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or
   "non-smooth") chrominance upsampling, because libjpeg v8 does not support
   merged upsampling with scaling factors > 1.
****************************************************************************
**     Performance Pitfalls
****************************************************************************
===============
Restart Markers
===============
The optimized Huffman decoder in libjpeg-turbo does not handle restart markers
in a way that makes the rest of the libjpeg infrastructure happy, so it is
necessary to use the slow Huffman decoder when decompressing a JPEG image that
has restart markers.  This can cause the decompression performance to drop by
as much as 20%, but the performance will still be much greater than that of
libjpeg.  Many consumer packages, such as PhotoShop, use restart markers when
generating JPEG images, so images generated by those programs will experience
this issue.
============================================
Fast Integer Forward DCT at High Quality Levels
============================================
The algorithm used by the SIMD-accelerated quantization function cannot produce
correct results whenever the fast integer forward DCT is used along with a JPEG
quality of 98-100.  Thus, libjpeg-turbo must use the non-SIMD quantization
function in those cases.  This causes performance to drop by as much as 40%.
It is therefore strongly advised that you use the slow integer forward DCT
whenever encoding images with a JPEG quality of 98 or higher.
```

pixman

```
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//
//
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```


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```
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//
//
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===
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//   - Finn Thogersons' VGADOC4b available at http://home.worldonline.dk/~finth/
//   - Michael Abrash's Graphics Programming Black Book
//   - Francois Gervais' book "programmation des cartes graphiques cga-ega-vga" edited
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//   - DOSEMU 1.0.1 source code for several tables values and formulas
//
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```
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various utilities/helpers and the modules link to libpulsecore and/or the afore
mentioned optional GPL dependencies they are of course also GPL licensed also
in this scenario.
In addition to this, if D-Bus support is enabled, the PulseAudio client library
(libpulse) MAY need to be licensed under the GPL, depending on the license
adopted for libdbus. libdbus is licensed under either of the Academic Free
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License 2.1 or GPL 2.0 or above. Which of these applies is your choice, and the
result affects the licensing of libpulse and thus, potentially, all programs
that link to libpulse.
Andre Adrian's echo cancellation implementation is licensed under a less
restrictive license - see src/modules/echo-cancel/adrian-license.txt for
details.
Some other files pulled into PA source (i.e. reference implementations that are
considered too small and stable to be considered as an external library) use the
more permissive MIT license. This include the device reservation DBus protocol
and realtime kit implementations.
A more permissive BSD-style license is used for LFE filters, see
src/pulsecore/filter/LICENSE.WEBKIT for details.
Additionally, a more permissive Sun license is used for code that performs
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The qpaeq program (src/utils/qpaeq) is licensed under the GNU Affero General
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While we attempt to provide a summary here, it is the ultimate responsibility of
the packager to ensure the components they use in their build of PulseAudio
meets their license requirements.
------------------------------------------------------------
------------------------------------------------------------
For:
src/pulsecore/filter/crossover.c
src/pulsecore/filter/biquad.h
src/pulsecore/filter/crossover.h
src/pulsecore/filter/biquad.c
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------------------------------------------------------------
------------------------------------------------------------
For:
src/modules/echo-cancel/adrian-aec.c
src/modules/echo-cancel/adrian-aec.h
------------------------------------------------------------
```


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For:
src/pulsecore/rtkit.c
src/pulsecore/rtkit.h
src/modules/reserve.c
src/modules/reserve-monitor.c
src/modules/reserve.h
src/modules/reserve-monitor.h
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---------------------------------------------------------------
---------------------------------------------------------------
For runtime header files at /usr/include/pulse/ (from pulseaudio-libs-devel):
cdecl.h
channelmap.h
context.h
def.h
direction.h
error.h
ext-device-manager.h
ext-device-restore.h
ext-stream-restore.h
format.h
gccmacro.h
glib-mainloop.h
introspect.h
mainloop-api.h
mainloop.h
mainloop-signal.h
operation.h
proplist.h
pulseaudio.h
rtclock.h
sample.h
scache.h
simple.h
stream.h
subscribe.h
thread-mainloop.h
timeval.h
utf8.h
util.h
version.h
volume.h
xmalloc.h
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Python

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Python was created in the early 1990s by Guido van Rossum at Stichting
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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
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u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from
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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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The socket module uses the functions, getaddrinfo(), and getnameinfo(), which are coded
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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Original location:
   https://github.com/majek/csiphash/

Solution inspired by code from:
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   djb (supercop/crypto_auth/siphash24/little2)
   Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

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libmpdec

The _decimal module is built using an included copy of the libmpdec library unless the
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 * QEMU PC keyboard emulation (revision 1.12)
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 * QEMU MC146818 RTC emulation
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 * QEMU 8253/8254 interval timer emulation
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========================================================================
hw/i8259.c:
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 * QEMU 8259 interrupt controller emulation
 *
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xextproto

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xf86-input-mouse

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xf86-input-mouse

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 */

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 * $XFree86: xc/programs/Xserver/hw/xfree86/drivers/vesa/vesa.h,v 1.12 2002/08/06
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 * $XFree86: xc/programs/Xserver/hw/xfree86/drivers/vesa/vesa.c,v 1.40 2003/11/03
05:11:45 tsi Exp $
 */
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xf86driproto

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xorg-server 1.7.7

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xorg-server 1.12.0

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xorg-server 1.13.0

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xorg-server 1.14.0

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xorg-server 1.17.1

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xorg-server 1.18.0

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xorg-server 1.15.0

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```
 */
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audio/mixeng.h:
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 * QEMU Mixing engine header
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slirp/tftp.c:
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 * tftp.c - a simple, read-only tftp server for qemu
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slirp/bootp.c:
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 * QEMU BOOTP/DHCP server
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hw/pcnet.c:
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 * AMD PCnet-PCI II (Am79C970A) emulation
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hw/ps2.c:
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 * QEMU PC keyboard emulation (revision 1.12)
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hw/mc146818rtc.c:
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 * QEMU MC146818 RTC emulation
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hw/i8254.c:
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 * QEMU 8253/8254 interval timer emulation
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hw/i8259.c:
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 * QEMU 8259 interrupt controller emulation
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hw/dma.c:
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 * QEMU DMA emulation
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hw/fdc.c:
/*
 * QEMU Floppy disk emulator (Intel 82078)
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hw/pci.c:
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 * QEMU PCI bus manager
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hw/sb16.c:
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 * QEMU Soundblaster 16 emulation
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hw/vga_int.h:
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 * QEMU internal VGA defines.
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Zlib Data Compression Library

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