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HPE Unified Functional Testing HPE UFT Pro (LeanFT)

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7-Zip SFX Module 1.5

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Version 3, 29 June 2007

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7-Zip Tool 9.20

Version 3, 29 June 2007

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Appium Dotnet Binding 1.5.0.01

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Augeas – Finite Automata 1.11

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AvalonDock 1.3.3585

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ChromDriver 2.26.436362

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Chromium 51.0.2701.0

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xdg-user-dirs

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mock4js

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native client

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newlib-extras

README for newlib-2.0.0 release
 (mostly cribbed from the README in the gdb-4.13 release)

This is `newlib', a simple ANSI C library, math library, and collection of board support packages.

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Unpacking and Installation -- quick overview

=====

When you unpack the newlib-2.0.0.tar.gz file, you'll find a directory called `newlib-2.0.0', which contains:

COPYING	config/	install-sh*	mpw-configure
COPYING.LIB	config-ml.in	libgloss/	mpw-install
COPYING.NEWLIB	config.guess*	mkinstalldirs*	newlib/
CYGNUS	config.sub*	move-if-change*	symlink-tree*
ChangeLog	configure*	mpw-README	texinfo/
Makefile.in	configure.in	mpw-build.in	
README	etc/	mpw-config.in	

To build NEWLIB, you must follow the instructions in the section entitled "Compiling NEWLIB".

This will configure and build all the libraries and crt0 (if one exists). If `configure' can't determine your host system type, specify one as its argument, e.g., sun4 or sun4sol2. NEWLIB is most often used in cross environments.

NOTE THAT YOU MUST HAVE ALREADY BUILT AND INSTALLED GCC and BINUTILS.

More Documentation

=====

Newlib documentation is available on the net via:
<http://sourceware.org/newlib/docs.html>

All the documentation for NEWLIB comes as part of the machine-readable distribution. The documentation is written in Texinfo format, which is a documentation system that uses a single source file to produce both on-line information and a printed manual. You can use one of the Info formatting commands to create the on-line version of the documentation and TeX (or `texi2roff') to typeset the printed version.

If you want to format these Info files yourself, you need one of the Info formatting programs, such as `texinfo-format-buffer' or `makeinfo'.

If you want to typeset and print copies of this manual, you need TeX, a program to print its DVI output files, and `texinfo.tex', the Texinfo

definitions file.

TeX is a typesetting program; it does not print files directly, but produces output files called DVI files. To print a typeset document, you need a program to print DVI files. If your system has TeX installed, chances are it has such a program. The precise command to use depends on your system; ``lpr -d'` is common; another (for PostScript devices) is ``dvips'`. The DVI print command may require a file name without any extension or a ``.dvi'` extension.

TeX also requires a macro definitions file called ``.texinfo.tex'`. This file tells TeX how to typeset a document written in Texinfo format. On its own, TeX cannot read, much less typeset a Texinfo file. ``.texinfo.tex'` is distributed with NEWLIB and is located in the ``.newlib-VERSION-NUMBER/texinfo'` directory.

Compiling NEWLIB

=====

To compile NEWLIB, you must build it in a directory separate from the source directory. If you want to run NEWLIB versions for several host or target machines, you need a different ``.newlib'` compiled for each combination of host and target. ``.configure'` is designed to make this easy by allowing you to generate each configuration in a separate subdirectory. If your ``.make'` program handles the ``.VPATH'` feature correctly (like GNU ``.make'`) running ``.make'` in each of these directories builds the ``.newlib'` libraries specified there.

To build ``.newlib'` in a specific directory, run ``.configure'` with the ``.--srcdir'` option to specify where to find the source. (You also need to specify a path to find ``.configure'` itself from your working directory. If the path to ``.configure'` would be the same as the argument to ``.--srcdir'`, you can leave out the ``.--srcdir'` option; it will be assumed.)

For example, with version 2.0.0, you can build NEWLIB in a separate directory for a Sun 4 cross m68k-aout environment like this:

```
cd newlib-2.0.0
mkdir ../newlib-m68k-aout
cd ../newlib-m68k-aout
../newlib-2.0.0/configure --host=sun4 --target=m68k-aout
make
```

When ``.configure'` builds a configuration using a remote source directory, it creates a tree for the binaries with the same structure (and using the same names) as the tree under the source directory. In the example, you'd find the Sun 4 library ``.libiberty.a'` in the directory ``.newlib-m68k-aout/libiberty'`, and NEWLIB itself in ``.newlib-m68k-aout/newlib'`.

When you run ``.make'` to build a program or library, you must run it in a configured directory--whatever directory you were in when you called ``.configure'` (or one of its subdirectories).

The `Makefile` that `configure` generates in each source directory also runs recursively. If you type `make` in a source directory such as `newlib-2.0.0` (or in a separate configured directory configured with `--srcdir=PATH/newlib-2.0.0`), you will build all the required libraries.

When you have multiple hosts or targets configured in separate directories, you can run `make` on them in parallel (for example, if they are NFS-mounted on each of the hosts); they will not interfere with each other.

Specifying names for hosts and targets

=====

The specifications used for hosts and targets in the `configure` script are based on a three-part naming scheme, but some short predefined aliases are also supported. The full naming scheme encodes three pieces of information in the following pattern:

```
ARCHITECTURE-VENDOR-OS
```

For example, you can use the alias `sun4` as a HOST argument or in a `--target=TARGET` option. The equivalent full name is `sparc-sun-sunos4`.

The `configure` script accompanying NEWLIB does not provide any query facility to list all supported host and target names or aliases. `configure` calls the Bourne shell script `config.sub` to map abbreviations to full names; you can read the script, if you wish, or you can use it to test your guesses on abbreviations--for example:

```
% sh config.sub sun4
sparc-sun-sunos4.1.1
% sh config.sub sun3
m68k-sun-sunos4.1.1
% sh config.sub decstation
mips-dec-ultrix4.2
% sh config.sub hp300bsd
m68k-hp-bsd
% sh config.sub i386v
i386-pc-sysv
% sh config.sub i786v
Invalid configuration `i786v': machine `i786v' not recognized
```

The Build, Host and Target Concepts in newlib

=====

The build, host and target concepts are defined for gcc as follows:

```
build: the platform on which gcc is built.
host: the platform on which gcc is run.
target: the platform for which gcc generates code.
```

Since newlib is a library, the target concept does not apply to it, and the build, host, and target options given to the top-level configure script must be changed for newlib's use.

The options are shifted according to these correspondences:

gcc's build platform has no equivalent in newlib.
 gcc's host platform is newlib's build platform.
 gcc's target platform is newlib's host platform.
 and as mentioned before, newlib has no concept of target.

`configure' options
 =====

Here is a summary of the `configure' options and arguments that are most often useful for building NEWLIB. `configure' also has several other options not listed here.

```
configure [--help]
           [--prefix=DIR]
           [--srcdir=PATH]
           [--target=TARGET] HOST
```

You may introduce options with a single '-' rather than '--' if you prefer; but you may abbreviate option names if you use '--'.

```
--help'
  Display a quick summary of how to invoke `configure'.
```

```
--prefix=DIR'
  Configure the source to install programs and files in directory
  `DIR'.
```

```
--exec-prefix=DIR'
  Configure the source to install host-dependent files in directory
  `DIR'.
```

```
--srcdir=PATH'
  *Warning: using this option requires GNU `make', or another `make'
  that compatibly implements the `VPATH' feature.
  Use this option to make configurations in directories separate
  from the NEWLIB source directories. Among other things, you can use
  this to build (or maintain) several configurations simultaneously,
  in separate directories. `configure' writes configuration
  specific files in the current directory, but arranges for them to
  use the source in the directory PATH. `configure' will create
  directories under the working directory in parallel to the source
  directories below PATH.
```

```
--norecursion'
  Configure only the directory level where `configure' is executed;
  do not propagate configuration to subdirectories.
```

```
--target=TARGET'
  Configure NEWLIB for running on the specified TARGET.
```

There is no convenient way to generate a list of all available targets.

```
HOST ...'
  Configure NEWLIB to be built using a cross compiler running on
```

the specified HOST.

There is no convenient way to generate a list of all available hosts.

To fit diverse usage models, NEWLIB supports a group of configuration options so that library features can be turned on/off according to target system's requirements.

One feature can be enabled by specifying `--enable-FEATURE=yes` or `--enable-FEATURE`. Or it can be disabled by `--enable-FEATURE=no` or `--disable-FEATURE`.

```
--enable-newlib-io-pos-args'  
    Enable printf-family positional arg support.  
    Disabled by default, but some hosts enable it in configure.host.  
  
--enable-newlib-io-c99-formats'  
    Enable C99 support in IO functions like printf/scanf.  
    Disabled by default, but some hosts enable it in configure.host.  
  
--enable-newlib-register-fini'  
    Enable finalization function registration using atexit.  
    Disabled by default.  
  
--enable-newlib-io-long-long'  
    Enable long long type support in IO functions like printf/scanf.  
    Disabled by default, but many hosts enable it in configure.host.  
  
--enable-newlib-io-long-double'  
    Enable long double type support in IO functions printf/scanf.  
    Disabled by default, but some hosts enable it in configure.host.  
  
--enable-newlib-mb'  
    Enable multibyte support.  
    Disabled by default.  
  
--enable-newlib-iconv-encodings'  
    Enable specific comma-separated list of bidirectional iconv  
    encodings to be built-in.  
    Disabled by default.  
  
--enable-newlib-iconv-from-encodings'  
    Enable specific comma-separated list of "from" iconv encodings  
    to be built-in.  
    Disabled by default.  
  
--enable-newlib-iconv-to-encodings'  
    Enable specific comma-separated list of "to" iconv encodings  
    to be built-in.  
    Disabled by default.  
  
--enable-newlib-iconv-external-ccs'  
    Enable capabilities to load external CCS files for iconv.  
    Disabled by default.  
  
--disable-newlib-atexit-dynamic-alloc'
```

Disable dynamic allocation of atexit entries.
Most hosts and targets have it enabled in configure.host.

- ``--enable-newlib-reent-small'`
Enable small reentrant struct support.
Disabled by default.
- ``--disable-newlib-fvwrite-in-streamio'`
NEWLIB implements the vector buffer mechanism to support stream IO buffering required by C standard. This feature is possibly unnecessary for embedded systems which won't change file buffering with functions like ``setbuf'` or ``setvbuf'`. The buffering mechanism still acts as default for STDIN/STDOUT/STDERR even if this option is specified.
Enabled by default.
- ``--disable-newlib-fseek-optimization'`
Disable fseek optimization. It can decrease code size of application calling ``fseek'`.
Enabled by default.
- ``--disable-newlib-wide-orient'`
C99 states that each stream has an orientation, wide or byte. This feature is possibly unnecessary for embedded systems which only do byte input/output operations on stream. It can decrease code size by disable the feature.
Enabled by default.
- ``--enable-newlib-nano-malloc'`
NEWLIB has two implementations of malloc family's functions, one in ``mallocr.c'` and the other one in ``nano-mallocr.c'`. This options enables the nano-malloc implementation, which is for small systems with very limited memory. Note that this implementation does not support ``--enable-malloc-debugging'` any more.
Disabled by default.
- ``--disable-newlib-unbuf-stream-opt'`
NEWLIB does optimization when ``fprintf` to write only unbuffered unix file'. It creates a temporary buffer to do the optimization that increases stack consumption by about ``BUFSIZ'` bytes. This option disables the optimization and saves size of text and stack.
Enabled by default.
- ``--enable-multilib'`
Build many library versions.
Enabled by default.
- ``--enable-target-optspace'`
Optimize for space.
Disabled by default.
- ``--enable-malloc-debugging'`
Indicate malloc debugging requested.
Disabled by default.
- ``--enable-newlib-multithread'`
Enable support for multiple threads.

Enabled by default.

```

`--enable-newlib-iconv'
  Enable iconv library support.
  Disabled by default.

`--enable-newlib-elix-level'
  Supply desired elix library level (1-4). Please refer to HOWTO for
  more information about this option.
  Set to level 0 by default.

`--disable-newlib-io-float'
  Disable printf/scanf family float support.
  Enabled by default.

`--disable-newlib-supplied-syscalls'
  Disable newlib from supplying syscalls.
  Enabled by default.

`--enable-lite-exit'
  Enable lite exit, a size-reduced implementation of exit that doesn't
  invoke clean-up functions such as _fini or global destructors.
  Disabled by default.

```

Running the Testsuite

=====

To run newlib's testsuite, you'll need a `site.exp` in your home directory which points dejagnu to the proper baseboards directory and the proper exp file for your target.

Before running `make check-target-newlib`, set the `DEJAGNU` environment variable to point to `~/site.exp`.

Here is a sample `site.exp`:

```

# Make sure we look in the right place for the board description files.
if ![info exists boards_dir] {
  set boards_dir {}
}
lappend boards_dir "your dejagnu/baseboards here"

verbose "Global Config File: target_triplet is $target_triplet" 2

global target_list
case "$target_triplet" in {
  { "mips-*elf*" } {
    set target_list "mips-sim"
  }

  default {
    set target_list { "unix" }
  }
}

```

`mips-sim` refers to an exp file in the baseboards directory. You'll

need to add the other targets you're testing to the case statement.

Now type `make check-target-newlib` in the top-level build directory to run the testsuite.

Shared newlib
=====

newlib uses libtool when it is being compiled natively (with `--target=i[34567]86-pc-linux-gnu`) on an `i[34567]86-pc-linux-gnu` host. This allows newlib to be compiled as a shared library.

To configure newlib, do the following from your build directory:

```
$(source_dir)/src/configure --with-newlib --prefix=$(install_dir)
```

configure will recognize that `host == target == i[34567]86-pc-linux-gnu`, so it will tell newlib to compile itself using libtool. By default, libtool will build shared and static versions of newlib.

To compile a program against shared newlib, do the following (where `target_install_dir = $(install_dir)/i[34567]86-pc-linux-gnu`):

```
gcc -nostdlib $(target_install_dir)/lib/crt0.o progname.c -I
$(target_install_dir)/include -L $(target_install_dir)/lib -lc -lm -lgcc
```

To run the program, make sure that `$(target_install_dir)/lib` is listed in the `LD_LIBRARY_PATH` environment variable.

To create a static binary linked against newlib, do the following:

```
gcc -nostdlib -static $(target_install_dir)/lib/crt0.o progname.c -I
$(target_install_dir)/include -L $(target_install_dir)/lib -lc -lm
```

libtool can be instructed to produce only static libraries. To build newlib as a static library only, do the following from your build directory:

```
$(source_dir)/src/configure --with-newlib --prefix=$(install_dir) --disable-shared
```

Regenerating Configuration Files
=====

At times you will need to make changes to `configure.in` and `Makefile.am` files. This will mean that `configure` and `Makefile.in` files will need to be regenerated.

At the top level of newlib is the file: `acinclude.m4`. This file contains the definition of the `NEWLIB_CONFIGURE` macro which is used by all `configure.in` files in newlib. You will notice that each directory in newlib containing a `configure.in` file also contains an `aclocal.m4` file. This file is generated by issuing: `aclocal -I${relative_path_to_toplevel_newlib_dir} -I${relative_path_to_toplevel_src_dir}`. The first relative directory is to access `acinclude.m4`. The second relative directory is to access libtool information in the top-level `src` directory.

For example, to regenerate `aclocal.m4` in `newlib/libc/machine/arm`:

```
aclocal -I ../../.. -I ../../../../..
```

Note that if the top level `acinclude.m4` is altered, every `aclocal.m4` file in `newlib` should be regenerated.

If the `aclocal.m4` file is regenerated due to a change in `acinclude.m4` or if a `configure.in` file is modified, the corresponding `configure` file in the directory must be regenerated using `autoconf`. No parameters are necessary. In the previous example, we would issue:

```
autoconf
```

from the `newlib/libc/machine/arm` directory.

If you have regenerated a `configure` file or if you have modified a `Makefile.am` file, you will need to regenerate the appropriate `Makefile.in` file(s). For `newlib`, `automake` is a bit trickier. First of all, all `Makefile.in` files in `newlib` (and `libgloss`) are generated using the `--cygnus` option of `automake`.

`Makefile.in` files are generated from the nearest directory up the chain which contains a `configure.in` file. In most cases, this is the same directory containing `configure.in`, but there are exceptions. For example, the `newlib/libc` directory has a number of subdirectories that do not contain their own `configure.in` files (e.g. `stdio`). For these directories, you must issue the `automake` command from `newlib/libc` which is the nearest parent directory that contains a `configure.in`. When you issue the `automake` command, you specify the subdirectory for the `Makefile.in` you are regenerating. For example:

```
automake --cygnus stdio/Makefile stdlib/Makefile
```

Note how multiple `Makefile.in` files can be created in the same step. You would not specify `machine/Makefile` or `sys/Makefile` in the previous example because both of these subdirectories contain their own `configure.in` files. One would change to each of these subdirectories and in turn issue:

```
automake --cygnus Makefile
```

Let's say you create a new `machine` directory `XXXX` off of `newlib/libc/machine`. After creating a new `configure.in` and `Makefile.am` file, you would issue:

```
aclocal -I ../../..
autoconf
automake --cygnus Makefile
```

from `newlib/libc/machine/XXXX`

It is strongly advised that you use an adequate version of autotools. For this latest release, the following were used: `autoconf 2.68`, `aclocal 1.11.6`, and `automake 1.11.6`.

Reporting Bugs

=====

The correct address for reporting bugs found in NEWLIB is "newlib@sourceware.org". Please email all bug reports to that address. Please include the NEWLIB version number (e.g., newlib-2.0.0), and how you configured it (e.g., "sun4 host and m68k-aout target"). Since NEWLIB supports many different configurations, it is important that you be precise about this.

Archives of the newlib mailing list are on-line, see <http://sourceware.org/ml/newlib/>

pthread-win32

pthread-win32 - a POSIX threads library for Microsoft Windows

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Pthreads-win32 is a library, available in several different versions depending on supported compilers, and may be used as a dynamically linked module or a statically linked set of binary modules. It is not an application on it's own.

It was fully intended that pthreads-win32 be usable with commercial software not covered by either the GPL or the LGPL licenses. Pthreads-win32 has many contributors to it's code base, many of whom have done so because they have used the library in commercial or proprietry software projects.

Releasing pthreads-win32 under the LGPL ensures that the library can be used widely, while at the same time ensures that bug fixes and improvements to the pthreads-win32 code itself is returned to benefit all current and future users of the library.

Although pthreads-win32 makes it possible for applications that use POSIX threads to be ported to Win32 platforms, the broader goal of the project is to encourage the use of open standards, and in particular, to make it just a little easier for developers writing Win32 applications to consider widening the potential market

open-vcdiff

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Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for

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```

Bspatch

BSD Protection License
February 2002

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This is of particular value to those who produce reference implementations of proposed standards: The case of TCP/IP clearly illustrates that freely and universally available implementations leads the rapid acceptance of standards -- often even being used instead of a de jure standard (eg, OSI network models).

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In addition, one can imagine that companies which operate by producing and selling (possibly closed-source) code would wish to protect themselves against the rise of a GPL-licensed competitor. While under existing licenses this would mean not releasing their code under any form of open license, if a license existed under which they could incorporate any improvements back into their own (commercial) products then they might be far more willing to provide for non-closed distribution.

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Google Cache Invalidation API

Version 2.0, January 2004
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Checkstyle is a development tool to help programmers write Java code that

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```
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```

```
library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

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

That's all there is to it!

Compact Language Detection

```
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Blackmagic DeckLink SDK – Mac

Extracted from mac/include/DeckLinkAPI.h:

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```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
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```

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

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#FFmpeg:

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- libpostproc
- libmpcodecs
- optional x86 optimizations in the files
  - libavcodec/x86/flac\_dsp\_gpl.asm
  - libavcodec/x86/idct\_mmx.c
- libutvideo encoding/decoding wrappers in libavcodec/libutvideo\*.cpp
- the X11 grabber in libavdevice/x11grab.c
- the swresample test app in libswresample/swresample-test.c
- the texi2pod.pl tool
- the following filters in libavfilter:
  - f\_ebur128.c
  - vf\_blackframe.c
  - vf\_boxblur.c
  - vf\_colormatrix.c
  - vf\_cropdetect.c
  - vf\_decimate.c
  - vf\_delogo.c
  - vf\_geq.c
  - vf\_histeq.c
  - vf\_hqdn3d.c
  - vf\_interlace.c
  - vf\_kerndeint.c
  - vf\_mcdeint.c
  - vf\_mp.c
  - vf\_owdenoise.c

```

- vf_perspective.c
- vf_phase.c
- vf_pp.c
- vf_pullup.c
- vf_sab.c
- vf_smartblur.c
- vf_spp.c
- vf_stereo3d.c
- vf_super2xsai.c
- vf_tinterlace.c
- vsrc_mptestsrc.c

```

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- \* The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and `libavcodec/jrevdct.c` are taken from `libjpeg`, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.
- `tests/reference.pnm` is under the `expat` license

external libraries  
 =====

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

compatible libraries  
 -----

The following libraries are under GPL:

```

- frei0r
- libcdio
- libutvideo
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

```

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

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incompatible libraries  
 -----

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If you wish to enable these libraries, pass `--enable-nonfree` to configure. But note that if you enable any of these libraries the resulting binary will be under a complex license mix that is more restrictive than the LGPL and that may result in additional obligations. It is possible that these restrictions cause the resulting binary to be unredistributable.

## fips181

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### Flot Javascript/JQuery library for creating graphs

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So far as we are aware, there are no patent restrictions on the remaining code.

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

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### Braille Translation Library

(Copied from src/liblouis/liblouis.h.in)

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\*/

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```

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in

themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.



Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at

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

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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```

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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```

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```
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

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

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### **modp base64 decoder**

```
* MODP_B64 - High performance base64 encoder/decoder
* Version 1.3 -- 17-Mar-2006
* http://modp.com/release/base64
*
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**mt19937ar**

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)`  
or `init_by_array(init_key, key_length)`.

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```

## Coverage

```
"""Code coverage measurement for Python.
```

```
Ned Batchelder
http://nedbatchelder.com/code/coverage
```

```
"""
```

```
from coverage.version import __version__, __url__
```

```
from coverage.control import coverage, process_startup
from coverage.data import CoverageData
from coverage.cmdline import main, CoverageScript
from coverage.misc import CoverageException
```

```
Module-level functions. The original API to this module was based on
functions defined directly in the module, with a singleton of the coverage()
class. That design hampered programmability, so the current api uses
explicitly-created coverage objects. But for backward compatibility, here we
define the top-level functions to create the singleton when they are first
called.
```

```
Singleton object for use with module-level functions. The singleton is
created as needed when one of the module-level functions is called.
```

```
_the_coverage = None
```

```
def _singleton_method(name):
```

```
 """Return a function to the `name` method on a singleton `coverage` object.
```

```
The singleton object is created the first time one of these functions is
called.
```

```
"""
```

```
Disable pylint msg W0612, because a bunch of variables look unused, but
they're accessed via locals().
pylint: disable=W0612
```

```
def wrapper(*args, **kwargs):
```

```
 """Singleton wrapper around a coverage method."""
```

```
 global _the_coverage
```

```
 if not _the_coverage:
```

```

 _the_coverage = coverage(auto_data=True)
 return getattr(_the_coverage, name)(*args, **kwargs)

import inspect
meth = getattr(coverage, name)
args, varargs, kw, defaults = inspect.getargspec(meth)
argspec = inspect.formatargspec(args[1:], varargs, kw, defaults)
docstring = meth.__doc__
wrapper.__doc__ = ("""\
 A first-use-singleton wrapper around coverage.%(name)s.

 This wrapper is provided for backward compatibility with legacy code.
 New code should use coverage.%(name)s directly.

 %(name)s%(argspec)s:

 %(docstring)s
 """ % locals()
)

return wrapper

Define the module-level functions.
use_cache = _singleton_method('use_cache')
start = _singleton_method('start')
stop = _singleton_method('stop')
erase = _singleton_method('erase')
exclude = _singleton_method('exclude')
analysis = _singleton_method('analysis')
analysis2 = _singleton_method('analysis2')
report = _singleton_method('report')
annotate = _singleton_method('annotate')

On Windows, we encode and decode deep enough that something goes wrong and
the encodings.utf_8 module is loaded and then unloaded, I don't know why.
Adding a reference here prevents it from being unloaded. Yuk.
import encodings.utf_8

Because of the "from coverage.control import foey" lines at the top of the
file, there's an entry for coverage.coverage in sys.modules, mapped to None.
This makes some inspection tools (like pydoc) unable to find the class
coverage.coverage. So remove that entry.
import sys
try:
 del sys.modules['coverage.coverage']
except KeyError:
 pass

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```

```

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```

### Python FTP server library

```

=====
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```

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```

=====

```

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## Quick Color Management System

qcms  
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## re2 - an efficient, principled regular expression library

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## Speech Dispatcher

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```

/*****
 * PROGRAM NAME: STP (Simple Theorem Prover)
 *
 * AUTHORS: Vijay Ganesh
 *
 * BEGIN DATE: November, 2005
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```

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CVC's SMT-LIB Parser  
\file smtlib.y

Author: Sergey Berezin, Clark Barrett

Created: Apr 30 2005

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## Talloc

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Samba temporary memory allocation functions

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## v4l-utils

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```

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```
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```

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### **Android bionic libc**

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strchr - find a character in a string

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Android adaptation and tweak by Jim Huang <jserv@0xlab.org>.

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Theo de Raadt <deraadt@openbsd.org> came up with the idea of using such a mathematical system to generate more random (yet non-repeating) ids to solve the resolver/named problem. But Niels designed the actual system based on the constraints.

Later modified by Damien Miller to wrap the LCG output in a 15-bit permutation generator based on a Luby-Rackoff block cipher. This ensures the output is non-repeating and preserves the MSB twiddle

trick, but makes it more resistant to LCG prediction.

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memchr - find a character in a memory zone

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perflib, guava:

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CSplitterControl interface:

Class name: CSplitterControl

Purpose: Implement splitter control for dialog or any other windows.

Author: Nguyen Huy Hung, Vietnamese student.

Date: May 29th 2002.

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### **Difference Algorithm for C# - Code Sample**

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Created by Matthias Hertel, see <http://www.mathertel.de>

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### **DotNetZip 1.9.1.8**

The DotNetZip library (available at <http://www.codeplex.com/DotNetZip>) is used in the QuickTest Extensibility Accelerator to handle archives, and in the Web Extensibility toolkit installations.

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### **Sizzle CSS Selector Engine 1.0.0**

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## SuperSelector 1.0

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## SuperWebSocket 1.6.3.0

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### **TSWizard 1.1**

.NET Wizard dialog framework provided by TSWizard (version 1.1).

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### Tyrus 1.8.2

[25/06/2015 19:22] Rosenzweig, Jackie:

The tyrus library code is supplied in the folder where the installation was extracted. (Default = c:\Temp\LeanFT).

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Homepage: <http://jqueryui.com/>

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## SystemJS 0.6.11

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**Log4js 0.6.32**

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**Minami 1.1.11**

The minami code was modified by the following changes:

In <trunk>/app/client/JSCliient/documentation/templates/default/tmpl/container.tmpl:

I temporarily changed line 69 from:

```
<?js if (doc.augments && doc.augments.length) { ?>
```

to:

```
<?js if (doc.augments && doc.augments.length && 1==2) { ?>
```

So the template won't show the "Extends" text. We should consider removing this code block, but only after we'll see for sure we don't need this text elsewhere.

2. In <trunk>/app/client/JSCliient/documentation/templates/default/tmpl/details.tmpl:

I temporarily changed line 35 from:

```
<?js if (data.inherited && data.inherits && !data.overrides) { ?>
```

to:

```
<?js if (data.inherited && data.inherits && !data.overrides && 1==2) { ?>
```

So the template won't show the "Inherited From:" text. We should consider removing this code block, but only after we'll see for sure we don't need this text elsewhere.

3. In `<trunk>/app/client/JSClient/documentation/templates/default/tmpl/details.tmpl`:

I temporarily changed line 67 from:

```
<?js if (data.mixes && data.mixes.length) { ?>
```

to:

```
<?js if (data.mixes && data.mixes.length && 1==2) { ?>
```

So the template won't show the "Mixes In:" text. We should consider removing this code block, but only after we'll see for sure we don't need this text elsewhere.

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## Andypenlitch-angular-jsbn-big-integer 1.0.14

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- BerkeleyDB by Sleepycat Software, Inc.
- EO.WebBrowser
- ExGrid by Exontrol.
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- GoXam by Northwoods
- HTML to PDF converter by Winnovative Software Solutions
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- Infragistics NetAdvantage for Win Client by Infragistics
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- Microsoft Visual C++ 2008 SP1 Run-time Components
- Microsoft Visual C++ 2008 SP1 Run-time Components for 64 bit Operating System
- Microsoft Visual C++ 2010 Run-time Components
- Microsoft Visual C++ 2010 Run-time Components for 64 bit Operating System
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- WDiff by C.Sitte Softwaretechnik.
- Web Services Enhancements for Microsoft .NET by Microsoft Corporation.
- WS-I validation utility
- XtraTreeList by DevExpress
- EO Browser by Essential Objects Inc.
- JxBrowser by TeamDev (UFT Pro (LeanFT) only)

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