Open Source Used In IOS XR
Release 7.0.1

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Text Part Number: 78EE117C99-178917064
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1.6 alsalib 1.0.28 :r0.0

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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1.13 apr 1.5.1 :r0.0

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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1.14 apr-util 1.5.3 :r0.0

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1.16 arm-trusted-firmware 1.4

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1.18 aspell 0.60.6.1-r1

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1.19 asyncio 0.2.1

1.19.1 Available under license:

Tulip is the codename for my reference implementation of PEP 3156.

PEP 3156: http://www.python.org/dev/peps/pep-3156/

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The actual code lives in the 'asyncio' subdirectory.
Tests are in the 'tests' subdirectory.

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- make test

To run coverage (coverage package is required):
- make coverage

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1.22 at-spi2-atk 2.24.1-r0
1.22.1 Available under license:

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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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.)

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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
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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
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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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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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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1.26 attr 2.4.47 :r0.0

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whether or not they are linked directly with the Library itself.

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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.

c) 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.

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1.27 autoconf 2.69 :r11.0

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AUTOCONF CONFIGURE SCRIPT EXCEPTION
Version 3.0, 18 August 2009

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1.38 base-passwd 3.5.29 :r0.1.0

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clear directions next to the object code saying where to find the
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1.42 bash-completion 2.7-r0

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- Seth Arnold, for contributing to the documentation.
- Daniel Black, (former) maintainer of the Gentoo GNU/Linux BeeCrypt package.
- Jan-Rudolph Bhrmann, for helping me get started on the 64-bit multi-
  precision integer library.
- Luca Filipozzi, (former) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jeff Johnson, the guy behind RedHat's Package Manager, who has inspired
  and contributed to many of the changes for version 3.0.0. He also provided
  the new hash functions for version 4.2.0. 73 de Bob.
- Anibal Monsalve Salazar, (current) maintainer/packager of BeeCrypt for
  Debian GNU/Linux.
- Jon Sturgeon, bug hunter extraordinaire.

Further thanks go to:
- AMD, for donating a copy of "AMD x86-64 Architecture Programmer's Manual".
- ARM Ltd, for donating a copy of "ARM Architecture Reference Manual".
- HP/Compaq, for their testdrive program, which gave me the opportunity to
  test and BeeCrypt on many new platforms.
- FSF France, for providing me with access to the GCC Compile Farm.
- SourceForge, for their excellent open source development platform.

Last but not least: thanks to everyone who provided bits of information,
reported bugs, provided feedback, or works on including BeeCrypt in any
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If I've missed anyone, it's due to oversight. Drop me a line and I'll
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796d35f98d787c5cffe2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

BEGIN{FS="\"";
   print "/* ===> Do not modify this file!! " \
" .*- buffer-read-only: t -*. vi" \
" :set ro:";
   print " It is created automatically by copying.awk.";
   print " Modify copying.awk instead. <=*/";
   print ""
   print " #include "defs.h""
   print " #include "command.h""
   print " #include "gdbcmd.h""
   print ""
   print " static void show_copying_command (char *, int);";
   print ""
   print " static void show_warranty_command (char *, int);";
   print ""
   print " void _initialize_copying (void);";
   print ""
   print " static void";
   print " show_copying_command (char *ignore, int from_tty);";
   print "{";
}
NR == 1;/^[ 	]*15\. Disclaimer of Warranty\.[ 	]*$/ 
if ($0 ~ /\}/ 
   {printf " printf_filtered ("\n"");
}
else if ($0 !~ /\}/ 
   {printf " printf_filtered (""");
      for (i = 1; i < NF; i++)
         printf "%s\\n", $i;
      printf "%s\\n")\n", $NF;
   }
}
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    print "");
    printf_filtered ("%");
    for (i = 1; i < NF; i++)
    printf("%s\n", $i);
    printf("%s\n\n");
}

END

    print "");
    printf_filtered (""");
    for (i = 1; i < NF; i++)
    printf("%s\n", $i);
    printf("%s\n\n", $NF;)
}
}

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That's all there is to it!
(This file is under construction.)

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.
The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bug fixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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# that carries a non-FSF copyright.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update

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# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# This script was copied from gcc’s contrib/ and modified to suit
# binutils. In contrast to the gcc script, this one will update
# the testsuite and --version output strings too.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0

    def report (self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write (string + '
')
        self.num_errors += 1

    def ok (self):
        return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set ([
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'COPYING.LIBGLOSS',
            'COPYING.NEWLIB',
            'LICENSE',
            'fdl.texi',
        ])

        self.skip_dirs = set ([
            # Skip directories.
            'bin',
            'lib',
        ])

        self.skip_extensions = set ([
            # Skip file extensions.
            '.egt',
            '.git',
            '.gtt',
            '.h',
            '.hgt',
        ])}
# Skip auto- and libtool-related files
'aclocal.m4',
'compile',
'config.guess',
'config.sub',
'depcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'ltoptions.m4',
'ltsubdir.m4',
'ltversion.m4',
'lt~obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
)

self.skip_extensions |= set ([
    # Maintained by the translation project.
    '.po',

    # Automatically-generated.
    '.pot',
    ])

self.skip_dirs |= set ([
    'autom4te.cache',
    ])

def get_line_filter (self, dir, filename):

if filename.startswith('ChangeLog'):
    # Ignore references to copyright in changelog entries.
    return re.compile('\\t')

return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True

    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True

    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True
    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
def __init__(self, errors):
    self.errors = errors

    # Characters in a range of years. Include '.' for typos.
    ranges = '[0-9][-0-9.,\s]s+\s+[0-9]'

    # Non-whitespace characters in a copyright holder's name.
    name = '[\w-.]'

    # Matches one year.
    self.year_re = re.compile ('[0-9]+' )

    # Matches part of a year or copyright holder.
    self.continuation_re = re.compile (ranges + '|' + name)

    # Matches a full copyright notice:
    self.copyright_re = re.compile (  # 1: 'Copyright (C)', etc.
        '(\[Cc\]opyright\n        \[Cc\]opyrights+\[Cc\])'  # 2: the years. Include the whitespace in the year, so that
        '|\[Cc\]opyrights+%s'  # we can remove any excess.
        '|\[Cc\]opyrights+&copy;'  # 3: 'by ', if used
        '|\[Cc\]opyrights+\@copyright\]'  # (by\s+)?
        '|@set\s+copyright\[w-\]+)'  # 4: the copyright holder. Don't allow multiple consecutive
        # spaces, so that right-margin gloss doesn't get caught
        # (e.g. gnat_ugn.texi).  
        '|' + name + '(?\s?' + name + ')\s*')

    # A regexp for notices that might have slipped by. Just matching
    # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
    # HTML header markers, so check for 'copyright' and two digits.
    self.other_copyright_re = re.compile ('(^|[^._])copyright[^=]*[0-9][0-9]',
        re.IGNORECASE)

    self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ' '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)
    def year_range (self, years):
        year_list = [self.parse_year (year)
                     for year in self.year_re.findall (years)]
        assert len (year_list) > 0
        return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year
def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years

    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
             and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != ':
            self.errors.report (pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
        else:
            # If it looks like the copyright is incomplete, add the next line.
            while not self.is_complete (match):
try:
    next_line = file.next()
except StopIteration:
    break

# If the next line doesn't look like a proper continuation,
# assume that what we've got is complete.
continuation = self.strip_continuation (next_line)
if not self.continuation_re.match (continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
        + canon_form
        + line[match.end (4):])

    # Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
if (self.max_year
    and match.start(0) > 0 and line[match.start(0)-1] == '"'
    and not filter.is_fossilised_file (dir, filename)):
    # A printed copyright date consists of the current year
    canon_form = '%d' % self.max_year
else:
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ' ' + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'
return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
    return

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
while line:
    next_line = None
    # Leave filtered-out lines alone.
    if not (line_filter and line_filter.match(line)):
        match = self.copyright_re.search(line)
        if match:
            res = self.update_copyright(dir, filename, filter,
                                         file, line, match)
            (this_changed, line, next_line) = res
            changed = changed or this_changed

    # Check for copyright lines that might have slipped by.
    elif self.other_copyright_re.search(line):
        self.errors.report(pathname, 'unrecognised copyright: %s' % line.strip())
    lines.append(line)
    line = next_line

    # If something changed, write the new file out.
    if changed and self.errors.ok():
        tmp_pathname = pathname + '.tmp'
        with open(tmp_pathname, 'w') as file:
            for line in lines:
                file.write(line)
        if self.use_quilt:
            subprocess.call(['quilt', 'add', pathname])
        os.rename(tmp_pathname, pathname)

def process_tree(self, tree, filter):
    for (dir, subdirs, filenames) in os.walk(tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange(len(subdirs) - 1, -1, -1):
            if filter.skip_dir(dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file(dir, filename):
                sys.stdout.write('Skipping %s
' % os.path.join(dir, filename))
            else:
                self.process_file(dir, filename, filter)

class CmdLine:
    def __init__(self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright(self.errors)
def add_dir(self, dir, filter=GenericFilter()):
    self.dirs.append((dir, filter))

def o_help(self, option=None):
    sys.stdout.write('Usage: %s [options] dir1 dir2...

      Options:
      %s

    ' % (sys.argv[0], ' '.join([o[1] for o in self.option_help]))

    for what, help in self.option_help:
        sys.stdout.write('%-15s %s
' % (what, help))

    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len(self.dirs):
            sys.stdout.write('%s
' % dir)
        else:
            sys.stdout.write('%s
' % dir)

    sys.exit(0)

def o_quilt(self, option):
    self.copyright.set_use_quilt(True)

def o_this_year(self, option):
    self.copyright.include_year(time.localtime().tm_year)

def main(self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append(arg)
        elif arg in self.option_handlers:
self.option_handlers[arg] (arg)
else:
    self.errors.report (None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len (self.chosen_dirs) == 0:
        self.o_help()
else:
    for chosen_dir in self.chosen_dirs:
        canon_dir = os.path.join (chosen_dir, '')
        count = 0
        for (dir, filter) in self.dirs:
            if (dir + os.sep).startswith (canon_dir):
                count += 1
                self.copyright.process_tree (dir, filter)
        if count == 0:
            self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
    sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class LdFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    self.skip_extensions |= set ([
        # ld testsuite output match files.
        '.ro',
    ])
class BinutilsCopyright (Copyright):

def __init__ (self, errors):
    Copyright.__init__ (self, errors)

    canon_fsf = 'Free Software Foundation, Inc.'
    self.add_package_author ('Free Software Foundation', canon_fsf)
    self.add_package_author ('Free Software Foundation.', canon_fsf)
    self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
    self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
    self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author ('The Free Software Foundation', canon_fsf)
    self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author ('Software Foundation, Inc.', canon_fsf)

    self.add_external_author ('Carnegie Mellon University')
    self.add_external_author ('John D. Polstra.')
    self.add_external_author ('Linaro Ltd.')
    self.add_external_author ('MIPS Computer Systems, Inc.')
    self.add_external_author ('Red Hat Inc.')
    self.add_external_author ('Regents of the University of California.')
    self.add_external_author ('The Regents of the University of California.')
    self.add_external_author ('Third Eye Software, Inc.')
    self.add_external_author ('Ulrich Drepper')
    self.add_external_author ('Synopsys Inc.')

class BinutilsCmdLine (CmdLine):

def __init__ (self):
    CmdLine.__init__ (self, BinutilsCopyright)

    self.add_dir ('.', TopLevelFilter())
    self.add_dir ('bfd')
    self.add_dir ('binutils')
    self.add_dir ('config', ConfigFilter())
    self.add_dir ('cpu')
    self.add_dir ('elfcpp')
    self.add_dir ('etc')
    self.add_dir ('gas')
    self.add_dir ('gdb')
    self.add_dir ('gold')
    self.add_dir ('gprof')
    self.add_dir ('include')
    self.add_dir ('ld', LdFilter())
    self.add_dir ('libdecnumber')
    self.add_dir ('libiberty')
    self.add_dir ('opcodes')
    self.add_dir ('readline')
    self.add_dir ('sim')
self.default_dirs = [
    'bfd',
    'binutils',
    'elfcpp',
    'etc',
    'gas',
    'gold',
    'gprof',
    'include',
    'ld',
    'libiberty',
    'opcodes',
]

BinutilsCommandLine().main()

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

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```python
#! /usr/bin/env python
# Copyright (C) 2011-2017 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
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==copyright.py

This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py
```
Always review the output of this script before committing it!
A useful command to review the output is:

```bash
% filterdiff -x *.c -x *.cc -x *.h -x *.exp updates.diff
```
This removes the bulk of the changes which are most likely to be correct.

```python
import datetime
import os
import os.path
import subprocess

def get_update_list():
    """Return the list of files to update.

    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!). The names of
    the files are relative to that root directory.
    ""
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
                    # Prune this directory from our search list.
                    dirs.remove(dirname)
                for filename in files:
                    relpath = "%s/%s" % (root, filename)
                    if (filename in EXCLUDE_ALL_LIST
                        or relpath in EXCLUDE_LIST
                        or relpath in NOT_FSF_LIST
                        or relpath in BY_HAND):
                        # Ignore this file.
                        pass
                    else:
                        result.append(relpath)
    return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    ""
```
# We want to use year intervals in the copyright notices, and
# all years should be collapsed to one single year interval,
# even if there are "holes" in the list of years found in the
# original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).

```
os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'
```

# Perform the update, and save the output in a string.
update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
update_cmd += update_list

p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                     stderr=subprocess.STDOUT)
update_out = p.communicate()[0]

# Process the output. Typically, a lot of files do not have
# a copyright notice :-(. The update-copyright script prints
# a well defined warning when it did not find the copyright notice.
# For each of those, do a sanity check and see if they may in fact
# have one. For the files that are found not to have one, we filter
# the line out from the output, since there is nothing more to do,
# short of looking at each file and seeing which notice is appropriate.
# Too much work! (~4,000 files listed as of 2012-01-03).
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)

for line in update_out:
    if line.endswith('
'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
    directory.

    The algorithm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
negatives... We might improve this function to handle more complex cases later...

# For now, it may have a copyright notice if we find the word
# "Copyright" at the (reasonable) start of the given file, say
# 50 lines...
MAX_LINES = 50

fd = open(filename)

lineno = 1
for line in fd:
    if 'Copyright' in line:
        return True
    lineno += 1
    if lineno > 50:
        return False
return False

def main ():
    """The main subprogram.""
    if not os.path.isfile("gnulib/import/extra/update-copyright"): 
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files (update_list)

    # Remind the user that some files need to be updated by HAND...
    if BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand." \\
        "\033[0m"
        for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
            print "", filename

    ############################################################################
    # Some constants, placed at the end because they take up a lot of room.
    # The actual value of these constants is not significant to the understanding
    # of the script.
   #
    # Files which should not be modified, either because they are
    # generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (
    'gdb/nat/glibc_thread_db.h',
    'gdb/CONTRIBUTE',
    'gdb/gnulib/import'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = (
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
    "fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (
    # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",
    "gdb/testsuite/gdb.base/step-line.c",
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb.gdbtk/",
    "sim/arm/armenu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcpro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
Open Source Used In IOS XR Release 7.0.1

"sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
"sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
"sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
"sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
"sim/arm/arminit.c",
"sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
"sim/common/cgen-accfp.c",
"sim/mips/m16run.c", "sim/mips/sim-main.c",
"sim/moxie/moxie-gdb.dts",

# Not a single file in sim/ppc/ appears to be copyright FSF :-(.
"sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
"sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
"sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
"sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
"sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
"sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
"sim/ppc/hw_phb.c", "sim/ppc/hw_eprom.c", "sim/ppc/bits.h",
"sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
"sim/ppc/options.h", "sim/ppc/gen-icache.h", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
"sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/decode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c"
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == '__main__':
    main()
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}
Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@c man end
@end ignore
@c node Copying
@c man begin DESCRIPTION
@appendix GNU GENERAL PUBLIC LICENSE
@c The GNU General Public License.
@center Version 3, 29 June 2007
@c This file is intended to be included within another document,
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@heading TERMS AND CONDITIONS

@enumerate 0
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work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
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(This file is under construction.)

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a spar cpu opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k,
i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.50 binutils-cross-aarch64 2.29r0

1.50.1 Available under license:

```bash
#!/usr/bin/env python

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#
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```copyright.py

This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:
% filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.

```python
import datetime
import os
import os.path
import subprocess

def get_update_list():
    """Return the list of files to update.

    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!).  The names of
    the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
                    # Prune this directory from our search list.
                    dirs.remove(dirname)
                for filename in files:
                    relpath = "%s/%s" % (root, filename)
                    if (filename in EXCLUDE_ALL_LIST
                        or relpath in EXCLUDE_LIST
                        or relpath in NOT_FSF_LIST
                        or relpath in BY_HAND):
                        # Ignore this file.
                        pass
                    else:
                        result.append(relpath)
    return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
```
# even if there are "holes" in the list of years found in the
# original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

# Perform the update, and save the output in a string.
update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
update_cmd += update_list

p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                     stderr=subprocess.STDOUT)
update_out = p.communicate()[0]

# Process the output. Typically, a lot of files do not have
# a copyright notice :-(. The update-copyright script prints
# a well defined warning when it did not find the copyright notice.
# For each of those, do a sanity check and see if they may in fact
# have one. For the files that are found not to have one, we filter
# the line out from the output, since there is nothing more to do.
# short of looking at each file and seeing which notice is appropriate.
# Too much work! (~4,000 files listed as of 2012-01-03).
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)

for line in update_out:
    if line.endswith('
'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
directory.

    The algorithm is fairly crude, meaning that it might return
some false positives. I do not think it will return any false
negatives... We might improve this function to handle more
complex cases later..."""

**
# For now, it may have a copyright notice if we find the word
# "Copyright" at the (reasonable) start of the given file, say
# 50 lines...
MAX_LINES = 50

fd = open(filename)

lineno = 1
for line in fd:
    if 'Copyright' in line:
        return True
    lineno += 1
    if lineno > 50:
        return False
return False

def main ():
    """The main subprogram.""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):  
       print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
o.s.chdir(root_dir)

update_list = get_update_list()
update_files (update_list)

# Remind the user that some files need to be updated by HAND...
if BY_HAND:
    print
    print "\033[31mREMINDER: The following files must be updated by hand." \ 
    "\033[0m"
    for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
        print "  ", filename

# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (  
  'gdb/nat/glibc_thread_db.h',  
  'gdb/CONTRIBUTE',  
  'gdb/gnulib/import'
)

# Files which should not be modified, either because they are  
# generated, non-FSF, or otherwise special (e.g. license text,  
# or test cases which must be sensitive to line numbering).
#  
# Matches any file or directory name anywhere. Use with caution.  
# This is mostly for files that can be found in multiple directories.  
# Eg: We want all files named COPYING to be left untouched.

EXCLUDE_ALL_LIST = (  
  "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",  
  "fdl.texi", "gpl.texi", "aclocal.m4",  
)

# The list of files to update by hand.

BY_HAND = (  
  # These files are sensitive to line numbering.  
  "gdb/testsuite/gdb.base/step-line.inp",  
  "gdb/testsuite/gdb.base/step-line.c",  
)

# Files containing multiple copyright headers. This script is only  
# fixing the first one it finds, so we need to finish the update  
# by hand.

MULTIPLE_COPYRIGHT_HEADERS = (  
  "gdb/doc/gdb.texinfo",  
  "gdb/doc/refcard.tex",  
  "gdb/gdbarch.sh",  
)

# The list of file which have a copyright, but not head by the FSF.  
# Filenames are relative to the root directory.

NOT_FSF_LIST = (  
  "gdb/exc_request.defs",  
  "gdb/gdbtk",  
  "gdb/testsuite/gdb.gdbtk/",  
  "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",  
  "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",  
  "sim/arm/armos.h", "sim/arm/armcpro.c", "sim/arm/armemu.c",  
  "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",  
  "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",  
  "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",  
  "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",  
)
"sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
"sim/arm/arminit.c",
"sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
"sim/common/cgen-accfp.e",
"sim/mips/m16run.c", "sim/mips/sim-main.c",
"sim/moxie/moxie-gdb.dts",
# Not a single file in sim/ppc/ appears to be copyright FSF :-(.
"sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/lx-insn.h",
"sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
"sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
"sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
"sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
"sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
"sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
"sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
"sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/lx-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
"sim/ppc/device_table.h", "sim/ppc/lx-insn.c", "sim/ppc/inline.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/lx-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.e",
"sim/ppc/bits.c", "sim/ppc/idecode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/pspym_instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/lx-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.e",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/registration.h", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/ff.c", "sim/ppc/lx.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lx.h", "sim/ppc/lx-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c", 

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"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
    main()
BEGIN{
    FS="";
    print "/** Do not modify this file!! " |
    "*- buffer-read-only: t *= vi" |
    "set ro;":
    print " It is created automatically by copying.awk.";
    print " Modify copying.awk instead. <= *= */";
    print "#
    print "#include "defs.h""
    print "#include "command.h""
    print "#include "gdbcmd.h""
    print ""
    print "static void show_copying_command (char *, int);"";
    print ""
    print "static void show_warranty_command (char *, int);"";
    print ""
    print "void _initialize_copying (void);""
    print ""
    print "static void";
    print "show_copying_command (char *ignore, int from_tty);"
    print "{}
    }
NR == 1./*[ ]*15\. Disclaimer of Warranty\[ ]*$/
if ($0 ~ /\n
    printf " printf_filtered (\"\n\n"
    )
else if ($0 !~ /\n
    printf " printf_filtered (\n"
for (i = 1; i < NF; i++)
printf "%s\\n", $i;
    printf "%s\\n\n", $NF;
    }
    }/*[ ]*15\. Disclaimer of Warranty\[ ]*$/
    print "]";";
    print ""
    print "static void";
    print "show_warranty_command (char *ignore, int from_tty);"
    print "]";";
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@heading TERMS AND CONDITIONS

@enumerate 0
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cost of physically performing this conveying of source, or (2) access
to copy the Corresponding Source from a network server at no charge.

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@item
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installed. Access to a network may be denied when the modification
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or violates the rules and protocols for communication across the
network.

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Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated “know” assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn’t been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.
John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.
Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
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SUCH DAMAGE.
#!/usr/bin/python
#  
# Copyright (C) 2013-2017 Free Software Foundation, Inc.
#  
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#  
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#  
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#  
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#  
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#  
# update-copyright.pl --this-year
#  
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#  
# update-copyright.pl --this-year libjava
#  
# would run the script on just libjava/.
#  
# This script was copied from gcc's contrib/ and modified to suit
# binutils. In contrast to the gcc script, this one will update
# the testsuite and --version output strings too.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ' : ' + string
        sys.stderr.write(string + '\n')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'COPYING.LIBGLOSS',
            'COPYING.NEWLIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltugs.m4',
        ''])
'ltversion.m4',
'lt~obsolete.m4',
'missing',
'mkdep',
'mkinstdirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
})

self.skip_extensions |= set (
    # Maintained by the translation project.
    '.po',

    # Automatically-generated.
    '.pot',
)

self.skip_dirs |= set (
    'autom4te.cache',
)

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('	')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
# Skip .in files produced by automake.
if os.path.exists(base + '.am'):
    return True

# Skip files produced by autogen
if (os.path.exists(base + '.def')
    and os.path.exists(base + '.tpl')):
    return True

# Skip configure files produced by autoconf
if filename == 'configure':
    if os.path.exists(base + '.ac'):
        return True
    if os.path.exists(base + '.in'):
        return True

return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True
    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '\[0-9\](?:\[-0-9.,\s\]|\s+and\s+)*\[0-9\]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\[\w.,-\]'

        # Matches one year.
        self.year_re = re.compile('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile(ranges + '|' + name)
# Matches a full copyright notice:
self.copyright_re = re.compile (  
    # 1: 'Copyright (C)', etc.
    '(\[Cc\]opyright'  
    '[[Cc]\opyrights+\[\[Cc]\]]'  
    '[[Cc]\opyrights+%s'  
    '[[Cc]\opyrights+&copy;'  
    '[[Cc]\opyrights+@copyright{]'  
    '[@set%s+copyright\[w-\]+]'  

    # 2: the years. Include the whitespace in the year, so that
    # we can remove any excess.
    '\(\$*\?\:+ ranges + ',?'  
    '@value\{[^{}]*\}s+\)'  

    # 3: 'by', if used
    '(by\$+)?'  

    # 4: the copyright holder. Don't allow multiple consecutive
    # spaces, so that right-margin gloss doesn't get caught
    # (e.g. gnat_uwn.texi).
    '\(' + name + '\)')?')

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*\[0-9\]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('(^|[^._])copyright\[^=\]*\[0-9\]\[0-9\]', re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+//+' + '@c dnl ')  

self.holders = { '@copying': '@copying' }  

self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ','

def add_package_author (self, holder, canon_form = None):  
    if not canon_form:  
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find ('')  
    while index >= 0:  
        self.holder_prefixes.add (holder[:index])
index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
    elif len (string) == 4:
        return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != ':
            self.errors.report(pathname,
                   'trailing characters in @set:
                   + after_years)
        return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break
            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None
# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match
holder = match.group (4)
# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
assert holder not in self.holders
elif not holder:
self.errors.report (pathname, 'missing copyright holder')
return (False, orig_line, next_line)
elif holder not in self.holders:
self.errors.report (pathname,
'unrecognised copyright holder: ' + holder)
return (False, orig_line, next_line)
else:
# See whether the copyright is associated with the package
# author.
canon_form = self.holders[holder]
if not canon_form:
return (False, orig_line, next_line)
# Make sure the author is given in a consistent way.
line = (line[:match.start (4)]
+ canon_form
+ line[match.end (4):])
# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]
# Update the copyright years.
years = match.group (2).strip()
if (self.max_year
and match.start(0) > 0 and line[match.start(0)-1] == '"'
and not filter.is_fossilised_file (dir, filename)):
# A printed copyright date consists of the current year
canon_form = '%d' % self.max_year
else:
try:
canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
self.errors.report (pathname, str (e))
return (False, orig_line, next_line)

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def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    with open(pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright(dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search(line):
                    self.errors.report(pathname,
                                       'unrecognised copyright: %s')
% line.strip()
    lines.append (line)
    line = next_line

# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp.pathname = pathname + '.tmp'
    with open (tmp.pathname, 'w') as file:
        for line in lines:
            file.write (line)
    if self.use_quilt:
        subprocess.call (["quilt", 'add', pathname])
    os.rename (tmp.pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                         self.o_this_year)

        def add_option (self, name, help, handler):
            self.option_help.append ((name, help))
            self.option_handlers[name] = handler
def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...
    ' % sys.argv[0])
    format = 'Options: %s
    ' % sys.argv[0]
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s
    '
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
    ')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len (self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join (chosen_dir, '')
            count = 0
            for (dir, filter) in self.dirs:
                if (dir + os.sep).startswith (canon_dir):
                    count += 1
self.copyright.process_tree (dir, filter)

if count == 0:
    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
    sys.exit (0 if self.errors.ok() else 1)

#--------------------------------------------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True

            return GenericFilter.skip_file (self, dir, filename)

class LdFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (['
            # ld testsuite output match files.
            .ro',
        ])

class BinutilsCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)
self.add_external_author('Carnegie Mellon University')
self.add_external_author('John D. Polstra.')
self.add_external_author('Linaro Ltd.')
self.add_external_author('MIPS Computer Systems, Inc.')
self.add_external_author('Red Hat Inc.')
self.add_external_author('Regents of the University of California.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Third Eye Software, Inc.')
self.add_external_author('Ulrich Drepper')
self.add_external_author('Synopsys Inc.')

class BinutilsCmdLine(CmdLine):
    def __init__(self):
        CmdLine.__init__(self, BinutilsCopyright)

        self.add_dir('.', TopLevelFilter())
        self.add_dir('bfd')
        self.add_dir('binutils')
        self.add_dir('config', ConfigFilter())
        self.add_dir('cpu')
        self.add_dir('elfcpp')
        self.add_dir('etc')
        self.add_dir('gas')
        self.add_dir('gdb')
        self.add_dir('gold')
        self.add_dir('gprof')
        self.add_dir('include')
        self.add_dir('ld', LdFilter())
        self.add_dir('libdecnumber')
        self.add_dir('libiberty')
        self.add_dir('opcodes')
        self.add_dir('readline')
        self.add_dir('sim')

        self.default_dirs = [
            'bfd',
            'binutils',
            'elfcpp',
            'etc',
            'gas',
            'gold',
            'gprof',
            'include',
            'ld',
            'libiberty',
            'opcodes',
        ]
BinutilsCmdLine().main()
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Version 2.1, February 1999

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

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 compile or link a "work that uses the Library" with the Library to produce a
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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) 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
reproducing the executable from it. However, as a special exception,
the source code 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
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It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
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analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
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treats it as such.

Because of this blurred distinction, using the ordinary General
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sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
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preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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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.

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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.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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
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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.)

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.

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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 reproducing the executable from it. However, as a special exception, the source code 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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.51 bison 2.29-r0
1.51.1 Available under license:

BEGIN{
    FS="";
    print "/* ==> Do not modify this file!! */
    ";
    print "/ *- buffer-read-only: t -*- vi */
    ";
    printf ("It is created automatically by copying.awk.");
    printf ("Modify copying.awk instead. <= *= */
    ");
    printf ("#include "defs.h"
    ");
    printf ("#include "command.h"
    ");
    printf ("#include "gdbcmd.h"
    ");
    printf ("static void show_copying_command (char *, int);
    ");
    printf ("static void show_warranty_command (char *, int);
    ");
    printf ("void _initialize_copying (void);
    ");
    printf ("static void"
    ");
    printf ("show_copying_command (char *ignore, int from_tty);
    ");
    printf ("*
    ");
}
NR == 1;/^[ ]*15\. Disclaimer of Warranty\[ ]*[/$
if ($0 ~ //)
{
    printf " printf_filtered ("\n\n"\n"\n";
}
else if ($0 !~ /[ ]*15\. Disclaimer of Warranty\[ ]*[/$
{
    printf " printf_filtered ("\n";
    for (i = 1; i < NF; i++)
    printf "%s\n", $i;
    printf "%s\n",
    $NF;
}
}
print "]";  
print "";  
print "static void";  
print "show_warranty_command (char *ignore, int from_tty)";  
print "{";  
}  

END	{
printf "printf_filtered (\"";
  for (i = 1; i < NF; i++)
    printf "%s\", $i;
  printf "%s\n\n\n";
}
END{
print "]";  
print "";  
print "void"  
print "_initialize_copying (void)";  
print "{";  
print " add_cmd (\"copying\", no_set_class, show_copying_command,";
print " _("Conditions for redistributing copies of GDB."),";
print " &showlist);";
print " add_cmd (\"warranty\", no_set_class, show_warranty_command,";
print " _("Various kinds of warranty you do not have."),";
print " &showlist);";
print "";  
print " /* For old-timers, allow \"info copying\", etc. */";  
print " add_info (\"copying\", show_copying_command,";
print " _("Conditions for redistributing copies of GDB."));";
print " add_info (\"warranty\", show_warranty_command,";
print " _("Various kinds of warranty you do not have."));";
print "]";  
}

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  Version 2.1, February 1999

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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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.

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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)
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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!
(This file is under construction.)

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me,
nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into
the documentation, and info on specific files will go into an AUTHORS
file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.
Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.
The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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#!/usr/bin/python
#
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#
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# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# This script was copied from gcc's contrib/ and modified to suit
# binutils. In contrast to the gcc script, this one will update
# the testsuite and --version output strings too.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

def report(self, filename, string):
    if filename:
        string = filename + ': ' + string
    sys.stderr.write(string + '\n')
    self.num_errors += 1

def ok(self):
    return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'COPYING.3LIB',
            'COPYING.3LIBGLOSS',
            'COPYING.NEWLIB',
            'LICENSE',
            'idl.texi',
            ''])
self.skip_extensions |= set(['
    # Maintained by the translation project.
    '.po',

    # Automatically-generated.
    '.pot',
])

self.skip_dirs |= set(['
    # Skip imported texinfo files.
    'texinfo.tex',
])

def get_line_filter (self, dir, filename):

    # Skip auto- and libtool-related files
    'aclocal.m4',
    'compile',
    'config.guess',
    'config.sub',
    'decomp',
    'install-sh',
    'libtool.m4',
    'ltmain.sh',
    'ltoptions.m4',
    'ltsgar.m4',
    'ltversion.m4',
    'lt--obsolete.m4',
    'missing',
    'mkdep',
    'mkinstalldirs',
    'move-if-change',
    'shlibpath.m4',
    'symlink-tree',
    'ylwrap',

    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    # Skip imported texinfo files.
    'texinfo.tex',
    ])
if filename.startswith('ChangeLog'):
    # Ignore references to copyright in changelog entries.
    return re.compile(r'\t')

return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True

        # Skip files produced by autogen
        if (os.path.exists(base + '.def')
            and os.path.exists(base + '.tpl')):
            return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True

    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True
    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
def __init__(self, errors):
    self.errors = errors

    # Characters in a range of years. Include '.' for typos.
    ranges = '[0-9][\.:\-,\s]+[0-9]*'[0-9]'

    # Non-whitespace characters in a copyright holder's name.
    name = '\w\-''

    # Matches one year.
    self.year_re = re.compile('[0-9]+')

    # Matches part of a year or copyright holder.
    self.continuation_re = re.compile(ranges + '|' + name)

    # Matches a full copyright notice:
    self.copyright_re = re.compile (  # 1: 'Copyright (C)', etc.
        '((Cc)opyright'  #[(Cc)opyrights+\[(Cc)])'
        '[(Cc)opyrights+%]'  #[(Cc)opyrights+&copy;'
        '[(Cc)opyrights+@copyright{]'  #[(Cc)opyrights+@copyright[ ]'
        '@setts+copyright[w-]+)'
    # 2: the years. Include the whitespace in the year, so that
    # we can remove any excess.
    '([^\+[\s]+)? + ranges + \s+?"
        '@value\{[^\}]*\}\s+?'
    # 3: 'by ', if used
    '(by\s\s+)?'  # 4: the copyright holder. Don't allow multiple consecutive
    # spaces, so that right-margin gloss doesn't get caught
    # (e.g. gnat_ugn.texi).
    '(\s?\s? + name + \s? + name + \s*?)?'

    # A regexp for notices that might have slipped by. Just matching
    # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
    # HTML header markers, so check for 'copyright' and two digits.
    self.other_copyright_re = re.compile ('(^|[^\._])copyright[^=]*[0-9][0-9]',
        re.IGNORECASE)

    self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl 

    self.holders = { '@copying': '@copying' }
    self.holder_prefixes = set()

    # True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ' '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)
    
def year_range (self, years):
        year_list = [self.parse_year (year)
                     for year in self.year_re.findall (years)]
        assert len (year_list) > 0
        return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year
def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years

    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != '
            self.errors.report (pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
        else:
            # If it looks like the copyright is incomplete, add the next line.
            while not self.is_complete (match):
                intro = match.group (1)
                if intro.startswith ('@set'):
                    # Texinfo year variables should always be on one line
                    after_years = line[match.end (2):].strip()
                    if after_years != '
                        self.errors.report (pathname,
                            'trailing characters in @set: ' + after_years)
                        return (False, orig_line, next_line)
                else:
                    # If it looks like the copyright is incomplete, add the next line.
                    while not self.is_complete (match):

try:
    next_line = file.next()
except StopIteration:
    break

# If the next line doesn't look like a proper continuation,
# assume that what we've got is complete.
continuation = self.strip_continuation(next_line)
if not self.continuation_re.match(continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match(line, match.start())
assert match

holder = match.group(4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author(dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report(pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report(pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)
else:
    # See whether the copyright is associated with the package
    # author.
canon_form = self.holders[holder]
if not canon_form:
    return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start(4)]
            + canon_form
            + line[match.end(4):])

    # Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
if (self.max_year
    and match.start(0) > 0 and line[match.start(0)-1] == '"
    and not filter.is_fossilised_file (dir, filename)):
    # A printed copyright date consists of the current year
    canon_form = '%d' % self.max_year
else:
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ' ' + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)
elif intro.endswith ('(c')):
    intro = intro[:-3] + '(C'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '
'
return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
    return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        intro = intro_filter (dir, line)
        line = intro + intro_filter (line)
        if intro.endswith ('(c'):
            intro += ' (C'
        elif intro.endswith ('right'):
            intro += ' (C')
        line = intro_filter (dir, line)
        changed = True
        lines.append (line)

return (changed, lines)
while line:
    next_line = None
    # Leave filtered-out lines alone.
    if not (line_filter and line_filter.match(line)):
        match = self.copyright_re.search(line)
        if match:
            res = self.update_copyright(dir, filename, filter,
                                         file, line, match)
            (this_changed, line, next_line) = res
            changed = changed or this_changed

    # Check for copyright lines that might have slipped by.
    elif self.other_copyright_re.search(line):
        self.errors.report(pathname,
                           'unrecognised copyright: %s'
                           % line.strip())
        lines.append(line)
    line = next_line

# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open(tmp_pathname, 'w') as file:
        for line in lines:
            file.write(line)
    if self.use_quilt:
        subprocess.call(['quilt', 'add', pathname])
    os.rename(tmp_pathname, pathname)

def process_tree(self, tree, filter):
    for (dir, subdirs, filenames) in os.walk(tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange(len(subdirs) - 1, -1, -1):
            if filter.skip_dir(dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file(dir, filename):
                sys.stdout.write('Skipping %s
' % os.path.join(dir, filename))
            else:
                self.process_file(dir, filename, filter)

class CmdLine:
    def __init__(self, copyright=Copyright):
        self.errors = Errors()
        self.copyright = copyright(self.errors)
self.dirs = []
self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []

def add_option (name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        else:
            if arg[1:] != '--help':
                self.option_handlers[arg[1:]] = lambda: self.o_help (arg[1:])
            elif arg[1:] in self.option_handlers:
                self.option_handlers[arg[1:]] ()
            else:
                sys.stdout.write ('Usage: %s [options] dir1 dir2...

    Options:
    %s
' % (sys.argv[0], '

    %s
' % sys.argv[0] for (what, help) in self.option_help):
        sys.stdout.write (format % (what, help))
   .sys.stdout.write ('
Directories:
' % sys.argv[0])
    for (dir, filter) in self.dirs:
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
')
        else:
            sys.stdout.write (format % dir)
        i += 1
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)
self.option_handlers[arg] (arg)

else:
    self.errors.report (None, 'unrecognised option: ' + arg)

if self.errors.ok():
    if len(self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len(self.chosen_dirs) == 0:
        self.o_help()
else:
    for chosen_dir in self.chosen_dirs:
        canon_dir = os.path.join (chosen_dir, '')
        count = 0
        for (dir, filter) in self.dirs:
            if (dir + os.sep).startswith (canon_dir):
                count += 1
                self.copyright.process_tree (dir, filter)
        if count == 0:
            self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
        sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class LdFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    self.skip_extensions |= set ([
        # ld testsuite output match files.
        '.ro',
    ])

Open Source Used In IOS XR Release 7.0.1
class BinutilsCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('Carnegie Mellon University')
        self.add_external_author ('John D. Polstra.')
        self.add_external_author ('Linaro Ltd.')
        self.add_external_author ('MIPS Computer Systems, Inc.')
        self.add_external_author ('Red Hat Inc.')
        self.add_external_author ('Regents of the University of California.')
        self.add_external_author ('The Regents of the University of California.')
        self.add_external_author ('Third Eye Software, Inc.')
        self.add_external_author ('Ulrich Drepper')
        self.add_external_author ('Synopsys Inc.')

class BinutilsCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, BinutilsCopyright)

        self.add_dir ('.', TopLevelFilter())
        self.add_dir ('bfd')
        self.add_dir ('binutils')
        self.add_dir ('config', ConfigFilter())
        self.add_dir ('cpu')
        self.add_dir ('elfcpp')
        self.add_dir ('etc')
        self.add_dir ('gas')
        self.add_dir ('gdb')
        self.add_dir ('gold')
        self.add_dir ('gprof')
        self.add_dir ('include')
        self.add_dir ('ld', LdFilter())
        self.add_dir ('libdecnumber')
        self.add_dir ('libiberty')
        self.add_dir ('opcodes')
        self.add_dir ('readline')
        self.add_dir ('sim')
self.default_dirs = [
    'bfd',
    'binutils',
    'elfcpp',
    'etc',
    'gas',
    'gold',
    'gprof',
    'include',
    'ld',
    'libiberty',
    'opcodes',
]

BoostSoftwareLicense().main()

Boost Software License - Version 1.0 - August 17th, 2003

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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

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

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

Open Source Used In IOS XR Release 7.0.1
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

```python
#!/usr/bin/env python
# Copyright (C) 2011-2017 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
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# GNU General Public License for more details.
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# You should have received a copy of the GNU General Public License
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'''copyright.py

This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py
```
Always review the output of this script before committing it!
A useful command to review the output is:
  % filterdiff -x *.c -x *.cc -x *.h -x *.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.

```python
import datetime
import os
import os.path
import subprocess

def get_update_list():
    """Return the list of files to update.

    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!). The names of
    the files are relative to that root directory.
    """

    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
                    # Prune this directory from our search list.
                    dirs.remove(dirname)
            for filename in files:
                relpath = "%s/%s" % (root, filename)
                if (filename in EXCLUDE_ALL_LIST
                    or relpath in EXCLUDE_LIST
                    or relpath in NOT_FSF_LIST
                    or relpath in BY_HAND):
                    # Ignore this file.
                    pass
                else:
                    result.append(relpath)
    return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
```
# We want to use year intervals in the copyright notices, and
# all years should be collapsed to one single year interval,
# even if there are "holes" in the list of years found in the
# original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

# Perform the update, and save the output in a string.
update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
update_cmd += update_list

p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                     stderr=subprocess.STDOUT)
update_out = p.communicate()[0]

# Process the output. Typically, a lot of files do not have
# a copyright notice :-(. The update-copyright script prints
# a well defined warning when it did not find the copyright notice.
# For each of those, do a sanity check and see if they may in fact
# have one. For the files that are found not to have one, we filter
# the line out from the output, since there is nothing more to do,
# short of looking at each file and seeing which notice is appropriate.
# Too much work! (~4,000 files listed as of 2012-01-03).
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)

for line in update_out:
    if line.endswith('
'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
    else:
        # Unrecognized file format. !?!
        print "*** " + line


def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
    directory.

    The algorithm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
negatives... We might improve this function to handle more complex cases later...

# For now, it may have a copyright notice if we find the word "Copyright" at the (reasonable) start of the given file, say # 50 lines...
MAX_LINES = 50

fd = open(filename)

lineno = 1
for line in fd:
    if 'Copyright' in line:
        return True
    lineno += 1
    if lineno > 50:
        return False
return False

def main ():
    """The main subprogram.""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):  
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files(update_list)

    # Remind the user that some files need to be updated by HAND...
    if BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand.\033[0m"
        for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
            print "  ", filename

############################################################################
# Some constants, placed at the end because they take up a lot of room.  
# The actual value of these constants is not significant to the understanding 
# of the script.  
#
############################################################################

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
Filenames are relative to the root directory.

EXCLUDE_LIST = (  
    'gdb/nat/glibc_thread_db.h',  
    'gdb/contribute',  
    'gdb/gnu/lib/import'  
)

Files which should not be modified, either because they are  
generated, non-FSF, or otherwise special (e.g. license text,  
or test cases which must be sensitive to line numbering).

EXCLUDE_ALL_LIST = (  
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",  
    "fdl.texi", "gpl.texi", "aclocal.m4",  
)

The list of files to update by hand.

BY_HAND = (  
    # These files are sensitive to line numbering.  
    "gdb/tests/gdb.base/step-line.inp",  
    "gdb/tests/gdb.base/step-line.c",  
)

Files containing multiple copyright headers. This script is only  
fixing the first one it finds, so we need to finish the update  
by hand.

MULTIPLE_COPYRIGHT_HEADERS = (  
    "gdb/doc/gdb.texinfo",  
    "gdb/doc/refcard.tex",  
    "gdb/gdbarch.sh",  
)

The list of file which have a copyright, but not head by the FSF.

NOT_FSF_LIST = (  
    "gdb/exc_request.defs",  
    "gdb/gdbtk",  
    "gdb/tests/gdb.gdbtk/",  
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdghost.c",  
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",  
    "sim/arm/armos.h", "sim/arm/armcpro.c", "sim/arm/armemu.c",  
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/arme.defs.h",  
)
"sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
"sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
"sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
"sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
"sim/arm/arminit.c",
"sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
"sim/common/cgen-accfp.c",
"sim/mips/m16run.c", "sim/mips/sim-main.c",
"sim/moxie/moxie-gdb.dts",

# Not a single file in sim/ppc/ appears to be copyright FSF :-('.
"sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/lb insn.h",
"sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
"sim/ppc/sim-Endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
"sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
"sim/ppc/sim_calls.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
"sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
"sim/ppc/hw_phib.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
"sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
"sim/ppc/options.h", "sim/ppc/gen-itable.c", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/lb-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
"sim/ppc/device_table.h", "sim/ppc/lb_insn.c", "sim/ppc/inl ine.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_idc.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/lb-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-Endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/decode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/lb-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/lb.c", "sim/ppc/lb.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lb.h", "sim/ppc/lb-decode.c", 

Open Source Used In IOS XR Release 7.0.1
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
    main()
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}
Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@c man end
@end ignore
@c node Copying
@c man begin DESCRIPTION
@appendix GNU GENERAL PUBLIC LICENSE
@c The GNU General Public License.
@center Version 3, 29 June 2007
@c This file is intended to be included within another document,
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States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
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The `source code` for a work means the preferred form of the work for
making modifications to it. `Object code` means any non-source form
of a work.

A `Standard Interface` means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
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The `System Libraries` of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
`Major Component`, in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The `Corresponding Source` for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
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subprograms and other parts of the work.

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work.

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@enumerate a
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@item The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
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@end enumerate

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@enumerate
  @item
  Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
  
  @item
  Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
  
  @item
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  @item
  Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
  
  @item
  Convey the object code using peer-to-peer transmission, provided you
inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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1.52 bison 2.7.1 :r0.0

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```
#!/usr/bin/perl -0777 -pi

# Update b4_copyright invocations or b4_copyright_years definitions to
# include the current year.

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use strict;
use warnings;

my $margin = 72;

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR};
if (!$this_year || $this_year !~ m/\d{4}$/)
{
    my ($sec, $min, $hour, $mday, $month, $year) = localtime (time ());
    $this_year = $year + 1900;
}
my $old_re = <<'EOF'
(?:(?:^|\n)
 #BEFORE
(?:
 b4_copyright\(\[[^\[\]*\]\]
 | m4_(?:push|pop)def\(\[b4_copyright_years\]
 )
 #AFTER
 )
(\s*)
```

EOF
while (/($old_re)/gx)
{
    my $start = pos() - length ($1);
    my $b4_copyright_line = $2;
    my $year_lines = $3;
    my $final_year = $4;
    $year_lines .= ');

    # If there was a second argument, it contains years, so update them.
    if ($final_year)
    {
        $b4_copyright_line .= ',';
        if ($final_year != $this_year)
        {
            # Update the year.
            $year_lines =~ s/$final_year/$final_year, $this_year/;
        }
    }

    # Normalize all whitespace.
    $year_lines =~ s/\s+//g;

    # Put spaces after commas.
    $year_lines =~ s/, \?/?, /g;

    # Compress to intervals.
    $year_lines =~ s/
        \d{4}
        (?: \d{4}(?::\d+)? \d{4})* \d{4}
    /\d{4}-\d{4}/gx;

    # Format within margin.
    my $year_lines_new;
my $indent = index ($b4_copyright_line, '[');
--$indent if ($b4_copyright_line =~ m/^\n/);
while (length $year_lines)
{
    my $text_margin = $margin - $indent;
    if (($year_lines =~ s/^(.{1,$text_margin})(?: |$)//)
        || ($year_lines =~ s/^([\S]+)(?: |$)//))
    {
        my $line = "\n" . (' 'x$indent) . $1;
        ++$indent if (!$year_lines_new);
        $year_lines_new .= $line;
    } else
    {
        # Should be unreachable, but we don't want an infinite
        # loop if it can be reached.
        die;
    }
}

# Replace the old invocation. Should never die.
die if (!s/$old_re\G/$b4_copyright_line$year_lines_new/x);

# Prepare for the next search.
pos () = $start + length ("$b4_copyright_line$year_lines_new");
}
}

while (/\bb4\_copyright\(.\)/g)
{
    my $start = pos () - length ($1);
    my $end = pos ();
    my $re = $old_re;
    pos () = $start;
    $re =~ s/#BEFORE/\G/;
    if (!/$re/x)
    {
        my $line = (substr ($_, 0, $start) =~ s/\n/\n/g) + 1;
        print STDERR
            "$ARGV:$line: warning: failed to update a b4\_copyright\n";
    }
    pos () = $end;
}

while (/\bb4\_copyright\_years\]/g)
{
    my $start = pos () - length ($1);
    my $end = pos ();
    }
my $re = $old_re;
$re =~ s/#AFTER/\G/;
if (!$re) {
    # The substr operation blows away pos (), so restoring pos ()
    # at the end is necessary.
    my $line = (substr ($_, 0, $start) =~ s/\n/\n/g) + 1;
    print STDERR
        "$ARGV:$line: warning: failed to update a".
        " b4_copyright_years\n";
}
pos () = $end;
}
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1.59 bmap-tools-native 3.4-r0

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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-name: bmap-tools
Upstream-Contact: Artem Bityutskiy <artem.bityutskiy@linux.intel.com>
Source: https://github.com/01org/bmap-tools

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1.62 boost 1.59.0 :1.59

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agle@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

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*/
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#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
  const fs::path& root;
  const fs::path& file;
  split_path(const fs::path& r, const fs::path& f)
    : root(r), file(f) {}
private:
  split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
  os << "<a href=" << (p.root / p.file).string() << ">
" << p.file.string() << 
" </a>";
  return os;
}

std::string make_link_target(const std::string& s)
{
  // convert an arbitrary string into something suitable
  // for an <a> name:
  std::string result;
  for(unsigned i = 0; i < s.size(); ++i)
  {
    result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
  }
  return result;
}

void bcp_implementation::output_license_info()
{
  std::pair<const license_info*, int> licenses = get_licenses();
std::map<int, license_data>::const_iterator i, j;
i = m_license_data.begin();
j = m_license_data.end();

std::ofstream os(m_dest_path.string().c_str());
if(!os)
{
    std::string msg("Error opening ");
    msg += m_dest_path.string();
    msg += " for output.");
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

os <<
"<!DOCTYPE HTML PUBLIC '-//W3C//DTD HTML 4.0 Transitional//EN'">\n"
"<html>
"<head>
"<title>Boost Licence Dependency Information</title>
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os <<
"</title>
"</head>
"<body>
"<H1>Boost Licence Dependency Information</H1>
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os <<
"</H1>
"<H2>Contents</h2>
"<pre><a href="#input">Input Information</a>
"if(!m_bsl_summary_mode)
    os << " <a href="#summary">Licence Summary</a>
"os << " <a href="#details">Licence Details</a>
"while(i != j)
{
    // title:
    os << " <A href="#" >> make_link_target(licenses.first[i->first].license_name)
    << ""> " << licenses.first[i->first].license_name << "</a>\n"
    ++i;
}

os << " <a href="#files">Files with no recognised license</a>
"
"<a href="#authors">Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
  os <<
  "Moving to the Boost Software License...\n"
  "  <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>\n"
  "  <a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>\n"
  "  <a href="#not-to-bsl">Files that can <b>NOT</b> be moved to the Boost Software License</a>\n"
  "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>\n"
  "<a href="#copyright">Copyright Holder Information</a>\n";
}

os <<
  "<a href="#depend">File Dependency Information</a>\n"
"</pre>";

//
// input Information:
//
// os << "<a name="input"></a><h2>Input Information</h2>\n"
if(m_scan_mode)
  os << "<p>The following files were scanned for boost dependencies:<br>";
else
  os << "<p>The following Boost modules were checked:<br>";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
  os << *si << "<br>";
  ++si;
}

os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>";

//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
  "^[[:blank:]*#\[[:blank:]*define\[[:blank:]*BOOST_VERSION\[[:blank:]*([^\d]+)\])\];
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
  int version = boost::lexical_cast<int>(what.str(1));
  os << "<p>The Boost version is: " << version /100000 << "." << version /100 % 1000 << "." << version % 100 << " </p>\n";
}
// output each license:
//
// i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
os << "<a name="summary"></a><h2>Licence Summary</h2><n"; 
while(i != j)
{
    // title:
    os << "><H3>" << licenses.first[i->first].license_name << "</H3>";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    // Copyright holders:
    os << "<P>" << licenses.first[i->first].license_name << "<a href="#"(see details)</a>";
    ++i;
    }
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2><n";
while(i != j)
{
    // title:
    os << "<H3>A name="" "<A name="""" "</H3>" << licenses.first[i->first].license_name << "</H3>";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        // Copyright holders:
        os << "<P>" << licenses.first[i->first].license_name << "<a href="#"(see details)</a>";
        std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
    os << *x << "<BR>
";
    ++x;
}
// Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:
";
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "<br>
";
    ++m;
}
os << "</P></BLOCKQUOTE>
";
else
{
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
    os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;
}
// Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>
";
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:
";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
";
    ++i2;
}
os << "</P></BLOCKQUOTE>";
// Output list of files with no found copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>
";
"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:

```
holder:

i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}
```

```
if(!m_bsl_summary_mode)
{
    //
    // Output list of files that have been moved over to the Boost Software License, along with enough information for human verification.
    //
    os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2><\n"
    << "\n""The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:"<< "\n"
    if (!m_converted_to_bsl.empty())
    {
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
        conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
        int file_num = 1;
        while (i != ie)
        {
            os << "<p>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
            << "\n""\n""<tt><tr><td>\n""<td><pre>
            << i->second.first << "</pre></td><\n""<td><pre>
            << i->second.second << "</pre></td><\n""<tr><table><\n"
            ++i;
            ++file_num;
        }
    }
    //
    // Output list of files that could be moved over to the Boost Software License
    //
    os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2><\n"
    "The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:"<< "\n"
    i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
```
Open Source Used In IOS XR Release 7.0.1

++i2;
}

os << "</p></BLOCKQUOTE>";
//
// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
"<p>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:</p>
i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
"; 
    ++i2;
}

os << "</p></BLOCKQUOTE>";
//
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
"<p>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.</p>
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "<br>
"));

os << "</p></BLOCKQUOTE>";
//
// output a table of copyright information:
//
os << "<h2><a name="copyright"></a>Copyright Holder Information</h2><table border="1">
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = ad->second.begin();
efi = ad->second.end();
while(fi != efi)
{
    os << split_path(m_boost_path, *fi) << " 
; 
    ++fi;
}
    os << "</td></tr>
"; 
    ++ad;
}
// output file dependency information:
//
os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
    while(i != ie)
        {
            bad_paths.insert(i->first);
            ++i;
        }
    fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    while (dep != last_dep)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
os << dep->second.string();
if(seen_deps.find(dep->second) != seen_deps.end())
{
    os << " <I>(Circular dependency!)</I>");
    break; // circular dependency!!!
}
seen_deps.insert(dep->second);
last_dep = dep;
dep = m_dependencies.find(dep->second);
if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
    break;
} 

os << "\n";
++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>";

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ",
    std::runtime_error e(msg);
    boost::throw_exception(e);
}
}

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This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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/

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazil@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agic@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>

template <typename X>
struct f { using type = X; };

template <typename X>
struct t { using type = X; };

template <typename X>
struct f { using type = X; };

using vector = mpl::transform<vector, boost::mpl::quote1<f>>::type;

int main() {}
// (See accompanying file LICENSE.md or copy at http://boost.org/LICENSE_1_0.txt)

#include <boost/mpl/push_back.hpp>
#include <boost/mpl/vector.hpp>

template <int i>
struct t { }

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>") }) %>

int main() { }

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#include <boost/mpl/fold.hpp>
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>

template <typename State, typename X>
struct f { using type = X; }

struct state { }

template <int i>
struct t { }

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>") }) %>

using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;

int main() { }

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Adapters for Boost.MPL containers.

Classes

- **struct boost::mpl::integral_c< T, v >**
  - Adapter for IntegralConstants from the Boost.MPL. [More...](#)

- **struct boost::mpl::list< T >**
  - Adapter for Boost.MPL lists.

- **struct boost::mpl::vector< T >**
  - Adapter for Boost.MPL vectors.

---

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#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow',
               '--date=short', '--format=%aN%x09%ad', filename],
               universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year == end.year else '{0}-{1}'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            key = (start, author)
            yield key, line
        return map(itemgetter(1), sorted(f()))

    def fix_copyright(filename):
        # Find copyright block in original file
        prefix = set()
        names = []
        lines = []
        with open(filename, 'r') as f:
            content = list(f)
            for i, line in enumerate(content[:15]):
                m = re.match(r'^\*(?P<prefix>W*)/(\(c\)?)\*(?copyright\s+(c)?)\*\d{4}(\s*\-\s*\d{4})?\*\s+\*\s*\s*$', line, re.IGNORECASE)
                if m:
                    d = m.groupdict()
                    prefix.add(d['prefix'])
                    lines.append(i)
                    names.append(d['name'].strip())
if len(prefix) != 1:
    print 'Not found:', filename
    return
prefix = list(prefix)[0]

print filename
new = iter(new_copyright(filename, names))
with open(filename, 'w') as f:
    for i, line in enumerate(content):
        if i in lines:
            for repl in new:
                print >>f, prefix + repl
        else:
            print >>f, line,
pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

for f in all_files():
    fix_copyright(f)

============================================================================
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<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
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All the value based traits in this library conform to MPL’s requirements for an Integral Constant type.

Please note that these types no longer inherit from `mpl::true_` or `mpl::false_` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.
All the value based traits in this library conform to MPL’s requirements for
an integral_constant type. Please note that these types no longer inherit from mpl
or implicit conversion from to the corresponding MPL types, therefore tag-dispatching
that uses MPL types in function overloads will still work as before.
```cpp
#include <boost/move/detail/type_traits.hpp>
#include <boost/intrusive/detail/mpl.hpp>
#include <cstddef>
namespace boost {
namespace container {
namespace container_detail {

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

template <class FirstType>
struct select1st
{
    typedef FirstType type;

    template <class T>
    const type& operator()(const T& x) const
    { return x.first; }
```
template<class T>
type& operator()(T& x)
{  return const_cast<type&>(x.first);  }
};

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#include <boost/container/detail/config_end.hpp>

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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// ///////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif
#
#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif
#
#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
  static const T value = val;
  typedef integral_constant<T,val> type;
};

}  //namespace ipcdetail {
}  //namespace interprocess {
}  //namespace boost {

#include <boost/config.hpp>

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

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//////////////////////////////////////////////////////////////////////////////
template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;  
};

typedef bool_<true>一听 true_
typedef bool_<false>一听 false_

typedef true_一听 true_type;
typedef false_一听 false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template<
    bool C
, typename T1
, typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
, typename T2
>
struct if_c<false,T1,T2>
{
typedef T2 type;
};

template<
    typename T1
, typename T2
, typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

typedef typename if_c<0 != T1::value, T2, T3>::type type;

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#define BOOST_CONFIG_HPP

#include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstdlib>

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using boost::move_detail::remove_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::disable_if_c;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::false_;  
using boost::move_detail::yes_type;  
using boost::move_detail::no_type;  
using boost::move_detail::apply;  
using boost::move_detail::eval_if_c;  
using boost::move_detail::eval_if;  
using boost::move_detail::unvoid_ref;  
using boost::move_detail::add_const_if_c;

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)  
 template <typename T, typename DefaultType>  
 struct boost_intrusive_default_type_ ## TNAME  
 {  
     template <typename X>  
     static char test(int, typename X::TNAME*);  
     template <typename X>  
     static int test(...);  
     struct DefaultWrap { typedef DefaultType TNAME; };  
     static const bool value = (1 == sizeof(test<T>(0, 0)));  
     typedef typename  
     ::boost::intrusive::detail::if_c  
     <value, T, DefaultWrap>::type::TNAME type;  
 };  
//
```cpp
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \
  typename INSTANTIATION_NS_PREFIX \
  boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type \

//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)
  template <typename T, typename DefaultType>                    
  struct boost_intrusive_eval_default_type_ ## TNAME             
  {                                                              
    template <typename X>                                       
    static char test(int, typename X::TNAME*);                  
    
    template <typename X>                                       
    static int test(...);                                       
    
    struct DefaultWrap                                          
    { typedef typename DefaultType::type TNAME; };              
    
    static const bool value = (1 == sizeof(test<T>(0, 0)));     
    
    typedef typename                                            
    ::boost::intrusive::detail::eval_if_c                    
    < value                                               
    , ::boost::intrusive::detail::identity<T>                 
    , ::boost::intrusive::detail::identity<DefaultWrap>       
    >::type::TNAME type;                                  
  };                                                             

//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \
  typename INSTANTIATION_NS_PREFIX                                                          
  boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type                          

//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND) 
  template <class T>
  struct TRAITS_PREFIX##_bool
  {
    template<bool Add>
    struct two_or_three {yes_type _[2 + Add];};
    template <class U> static yes_type test(...);
    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);
    static const std::size_t value = sizeof(test<T>(0));
  }
```

---

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template <class T>
struct TRAITS_PREFIX##_bool_is_true
{
    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;
};

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME) \
    template <typename U, typename Signature> \
    class TRAITS_NAME \
    {
    private:
    template<Signature> struct helper;
    template<typename T> \
    static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*);
    template<typename T> static ::boost::intrusive::detail::no_type test(...);
    public:
    static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type);
    }
#endif

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
    template <typename Type> \
    struct TRAITS_NAME \
    {
    struct BaseMixin \
    {
        void FUNC_NAME();
    };
    struct Base : public Type, public BaseMixin { Base(); };
    template <typename T, T t> class Helper{}; \
    template <typename U> \
    static ::boost::intrusive::detail::no_type test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0);
    static ::boost::intrusive::detail::yes_type test(...);
    static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0)));
    }
#endif

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) \
    BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME) \

    template <typename Type, class> \
    struct TRAITS_NAME \
    : public TRAITS_NAME##_ignore_signature<Type> \
    { };
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Adapters for Boost.MPL containers.

### Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>boost::mpl::integral_c&lt; T, v &gt;</code></td>
<td>Adapter for IntegralConstants from the Boost.MPL.</td>
</tr>
<tr>
<td><code>boost::mpl::list&lt; T &gt;</code></td>
<td>Adapter for Boost.MPL lists.</td>
</tr>
<tr>
<td><code>boost::mpl::vector&lt; T &gt;</code></td>
<td>Adapter for Boost.MPL vectors.</td>
</tr>
</tbody>
</table>

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

1.71 bzip2 1.0.6

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

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libb2.dll test program.
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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
1.73 **bzip2-native 1.0.6-r0**

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That's all there is to it!

1.77 calibrateproto 0.0.24-r0

1.78 canutils 4.0.6-r0
1.78.1 Available under license :

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```
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```

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

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1.79 ccache 3.3.4-r0

1.79.1 Available under license:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
"http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en">
<head>
<meta http-equiv="Content-Type" content="application/xhtml+xml; charset=UTF-8" />
<meta name="generator" content="AsciiDoc 8.6.9" />
<title>ccache copyright and license</title>
<style type="text/css">
/* Shared CSS for AsciiDoc xhtml11 and html5 backends */

/* Default font. */
body {
  font-family: Georgia,serif;
}
```
margin-top: 0.0em;
}
div.content div.title:first-child {
  margin-top: 0.0em;
}
div.content + div.title {
  margin-top: 0.0em;
}

div.sidebarblock > div.content {
  background: #ffffee;
  border: 1px solid #dddddd;
  border-left: 4px solid #f0f0f0;
  padding: 0.5em;
}
div.listingblock > div.content {
  border: 1px solid #dddddd;
  border-left: 5px solid #f0f0f0;
  background: #f8f8f8;
  padding: 0.5em;
}
div.quoteblock, div.verseblock {
  padding-left: 1.0em;
  margin-left: 1.0em;
  margin-right: 10%;
  border-left: 5px solid #f0f0f0;
  color: #888;
}
div.quoteblock > div.attribution {
  padding-top: 0.5em;
  text-align: right;
}
div.verseblock > pre.content {
  font-family: inherit;
  font-size: inherit;
}
div.verseblock > div.attribution {
  padding-top: 0.75em;
  text-align: left;
}
/* DEPRECATED: Pre version 8.2.7 verse style literal block. */
div.verseblock + div.attribution {
  text-align: left;
}
<table>
<thead>
<tr>
<th>Table Block Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>margin-top: 1.0em;</td>
</tr>
<tr>
<td>margin-bottom: 1.5em;</td>
</tr>
<tr>
<td>font-weight: bold;</td>
</tr>
<tr>
<td>color: #527bbd;</td>
</tr>
<tr>
<td>border-width: 3px;</td>
</tr>
<tr>
<td>border-spacing: 0px;</td>
</tr>
<tr>
<td>border-style: solid;</td>
</tr>
<tr>
<td>border-color: #527bbd;</td>
</tr>
<tr>
<td>border-collapse: collapse;</td>
</tr>
<tr>
<td>border-left-style: hidden;</td>
</tr>
<tr>
<td>border-right-style: hidden;</td>
</tr>
<tr>
<td>border-top-style: hidden;</td>
</tr>
<tr>
<td>border-bottom-style: hidden;</td>
</tr>
<tr>
<td>text-align: left;</td>
</tr>
</tbody>
</table>
/*
 * manpage specific
 *
 */

body.manpage h1 {
padding-top: 0.5em;
padding-bottom: 0.5em;
border-top: 2px solid silver;
border-bottom: 2px solid silver;
}
body.manpage h2 {
border-style: none;
}
body.manpage div.sectionbody {
margin-left: 3em;
}

@media print {
body.manpage div#toc { display: none; }
}

</style>
<script type="text/javascript">
/*<![CDATA[*/}
var asciidoc = {} // Namespace.

(""
// Table Of Contents generator
// Table Of Content generator

/* Author: Mihai Bazon, September 2002
 * http://students.infoiasi.ro/~mishoo
 * Table Of Content generator
 * Version: 0.4
 * Feel free to use this script under the terms of the GNU General Public
 * License, as long as you do not remove or alter this notice.
 */

/* modified by Troy D. Hanson, September 2006. License: GPL */

// toclevels = 1..4.
toc: function (toclevels) {

    function getText(el) {
        var text = "";
        for (var i = el.firstChild; i != null; i = i.nextSibling) {
            if (i.nodeType == 3 /* Node.TEXT_NODE */) // IE doesn't speak constants.
                text += i.data;
            else if (i.firstChild != null)
                text += getText(i);
        }
        return text;
    }

    function TocEntry(el, text, toclevel) {
        this.element = el;
        this.text = text;
        this.toclevel = toclevel;
    }

    function tocEntries(el, toclevels) {
        var result = new Array;
        var re = new RegExp('[hH][1-'+(toclevels+1)+']');
        // Function that scans the DOM tree for header elements (the DOM2
        // nodeIterator API would be a better technique but not supported by all
        // browsers).
        var iterate = function (el) {
            for (var i = el.firstChild; i != null; i = i.nextSibling) {
                if (i.nodeType == 1 /* Node.ELEMENT_NODE */) {
                    var mo = re.exec(i.tagName);
                    if (mo && (i.getAttribute("class") || i.getAttribute("className")) != "float") {
                        result[result.length] = new TocEntry(i, getText(i), mo[1]-1);
                    }
                }
            }
        }
        iterate(el);
    }

    tocEntries(el, toclevels);
}
footnotes: function () {
    // Delete existing footnote entries in case we're reloading the footnotes.
    var i;
    var noteholder = document.getElementById("footnotes");
    if (!noteholder) {
        return;
    }
    var entriesToRemove = [];
    for (i = 0; i < noteholder.childNodes.length; i++) {
        var entry = noteholder.childNodes[i];
        if (entry.nodeName.toLowerCase() == 'div' && entry.getAttribute("class") == "footnote")
            entriesToRemove.push(entry);
    }
    for (i = 0; i < entriesToRemove.length; i++) {
        noteholder.removeChild(entriesToRemove[i]);
    }

    // Rebuild footnote entries.
    var cont = document.getElementById("content");
    var spans = cont.getElementsByTagName("span");
    var refs = {};
    var n = 0;
    for (i=0; i<spans.length; i++) {
        if (spans[i].className == "footnote") {
            n++;
            var note = spans[i].getAttribute("data-note");
            if (!note) {
                // Use \[\s\S\] in place of . so multi-line matches work.
                // Because JavaScript has no s (dotall) regex flag.
                note = spans[i].innerHTML.match(/\[(\[\s\S\]*)\]/)[1];
                spans[i].innerHTML = "[<a id='_footnoteref_" + n + "]' href='#_footnote_" + n + "' title='View footnote' class='footnote'>" + n + "</a>]";
                spans[i].setAttribute("data-note", note);
            }
            noteholder.innerHTML +=
            "<div class='footnote' id='_footnote_" + n + "]'>
             <a href='#_footnoteref_" + n + "]' title='Return to text'>" + n + "</a>. " + note + "</div">");
            var id = spans[i].getAttribute("id");
            if (id != null) refs["#"+id] = n;
        }
    }
}
if (n == 0) {
  noteholder.parentNode.removeChild(noteholder);
} else {
  // Process footnoterefs.
  for (i=0; i<spans.length; i++) {
    if (spans[i].className == "footnoteref") {
      var href = spans[i].getElementsByTagName("a")[0].getAttribute("href");
      href = href.match(/#.*/)[0];  // Because IE return full URL.
      n = refs[href];
      spans[i].innerHTML = "[<a href='#_footnote_" + n + "' title='View footnote' class='footnote'>" + n + "]</a>";
    }
  }
}

install: function(toclevels) {
  var timerId;

  function reinstall() {
    asciiDoc.footnotes();
    if (toclevels) {
      asciiDoc.toc(toclevels);
    }
  }

  function reinstallAndRemoveTimer() {
    clearInterval(timerId);
    reinstall();
  }

  timerId = setInterval(reinstall, 500);
  if (document.addEventListener)
    document.addEventListener("DOMContentLoaded", reinstallAndRemoveTimer, false);
  else
    window.onload = reinstallAndRemoveTimer;
}

asciidoc.install(2);
/*]]>*
</script>
</head>
<body class="article">
<div id="header">

</div>
<h1>ccache copyright and license</h1>

<span id="revnumber">version 3.3.4</span>

<div id="toc">
<div id="toctitle">Table of Contents</div>
<noscript><p><b>JavaScript must be enabled in your browser to display the table of contents.</b></p></noscript>
</div>

<div id="content">
<div class="sect1">
<h2 id="_overall_license">Overall license</h2>
<div class="sectionbody">
<div class="paragraph"><p>The license for ccache as a whole is as follows:</p></div>
<div class="listingblock">
<div class="content">
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<div class="paragraph"><p>The full license text can be found in GPL-3.0.txt and at
</div>
</div>

<div class="sect1">
<h2 id="_copyright_and_authors">Copyright and authors</h2>
<div class="sectionbody">
<div class="paragraph"><p>ccache is a collective work with contributions from many people, listed in
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<div class="paragraph"><p>The copyright for ccache as a whole is as follows:</p></div>
</div>
</div>

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```

---

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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 (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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2.5 2.4 2006 PSF yes
2.5.1 2.5 2007 PSF yes
2.5.2 2.5.1 2008 PSF yes
2.5.3 2.5.2 2008 PSF yes
2.6 2.5 2008 PSF yes
2.6.1 2.6 2008 PSF yes

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

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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 (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

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murmurhashneutral2.[hc]
~~~~~~~~~~~~~~~~~~~~~~

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~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

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zlib/*.[hc]
~~~~~~~~~~
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m4/feature_macros.m4
~~~~~~~~~~~~~~~~~~~~

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

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

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

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

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2.4  2.3  2004  PSF  yes
2.4.1  2.4  2005  PSF  yes
2.4.2  2.4.1  2005  PSF  yes
2.4.3  2.4.2  2006  PSF  yes
2.4.4  2.4.3  2006  PSF  yes
2.5  2.4  2006  PSF  yes
2.5.1  2.5  2007  PSF  yes
2.5.2  2.5.1  2008  PSF  yes
2.5.3  2.5.2  2008  PSF  yes
2.6  2.5  2008  PSF  yes
2.6.1  2.6  2008  PSF  yes

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

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~~~~~~~~~~~~~~~~~~~~~~~

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~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
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1.83 chkconfig 1.3.58 :r7.0
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#define UV_PLATFORM_FS_EVENT_FIELDS
  uv__io_t event_watcher;

#define UV_IO_PRIVATE_PLATFORM_FIELDS
  int rcount;
  int wcount;

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

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'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

hello world
merhaba dnya

4-Byte sequences:
Perch (Fish) Elevator !

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CMake was initially developed by Kitware with the following sponsorship:

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

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1.105 cracklib 2.9.5-r0

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

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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.

-- Nathan
=20

-----------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> =-mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.
the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =20
a=20
library to dictact to application writes what license they should be using.=20
thus LGPL-2.1 enters to fill this void.

Mike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec
directly
> and see if he wants to relicense his code as LGPL... but at this
point,
> it was enough to just get it consistent and documented as to what
it was
> released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.
the original license (before moving to sourceforge -- aka, 2.7) was not
GPL-2 ... it was a modified artistic license ... i didn't notice the license
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If it's sinful, it's more fun.

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In any case, I thank you both for working on sorting this out.

Cheers,

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The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

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

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from smtp1.srv.mst.edu (131.151.1.43) by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142]) by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311 for <nneul@neulinger.org>; Mon, 01 Oct 2007 16:59:49 +0000
Id 11cOcX-0004Qt-6L

for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BEE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>

-------------------
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.106 cracklib 2.9.1 :r0.0

1.106.1 Available under license:

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.
[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=20
-- Nathan
=20
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
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Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
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> From: cracklib-devel-bounces@li...
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> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
----------

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---------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
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  by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
  by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTPT id 191Gxtrp020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
  by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTPT id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
  by rutherford.zen.co.uk with essmtp (Exim 4.50)
  id 11cOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
> > ---------- Forwarded message ----------
> > From: Neulinger, Nathan <nneul@umr.edu>
> > Date: Sep 27, 2007 2:58 PM
> > Subject: RE: cracklib license
> > To: alecm@crypto.dircon.co.uk
> >
> > Any chance you could write me a self-contained email stating clearly
> > that the license is being changed to GPL, so I could include that
> > email
> > in the repository and clean up the repository/tarballs? I have all the
> > original discussion, but something succinct and self contained
> > would be
> > ideal.
> >
> > The license for my code in the Cracklib distribution is henceforth GPL.
> >
> > Happy now? :-)
> >
> > -a
> 
> GNU LESSER GENERAL PUBLIC LICENSE
> Version 2.1, February 1999
> 
> Copyright (C) 1991, 1999 Free Software Foundation, Inc.
> 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
> 
> Everyone is permitted to copy and distribute verbatim copies
> of this license document, but changing it is not allowed.
> 
> [This is the first released version of the Lesser GPL.  It also counts
as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be
introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

^L

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

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
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.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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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However, linking a "work that uses the Library" with the Library
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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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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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 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.

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) 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 reproducing the executable from it. However, as a special exception, the source code 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:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

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

You should also get your employer (if you work as a programmer) or your
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necessary. Here is a sample; alter the names:

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

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

That's all there is to it!

1.108 crash 6.1.4 :r3.0
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When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.
TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

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of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

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You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified
it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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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.

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@heading TERMS AND CONDITIONS

@enumerate 0
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@item
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1.117 curl 7.37.1 :r0.0

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1.118 curl-native 7.54.1-r0

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### 1.119 cwautomacros-native 20110201-r0

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1.127 dbus-test 1.10.20-r0

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1.129 debianutils-native 4.8.1.1-r0

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Top of the list, without whom this wouldn't be here...

Bruce Evans<bde@FreeBSD.org>

Then there's me, I'm controlling the releases of Dev86 and have the master files.

Robert de Bath<robert$@mayday.cix.co.uk>

The files are available at linux.mit.edu with the source and yesterday's patch file available via http://cix.co.uk/~mayday/

We're all available through the Linux-8086 mailing list at:
linux-8086@vger.kernel.org

Rob.

Finally the list itself, if you're missing send me a patch :-)

Alan Cox<alan@cymru.net>
Nat Friedman<ndf@aleph1.mit.edu>
Steven Huang<sthuang@hns.com>
Steffen Kaiser <Steffen.Kaiser@fh-rhein-sieg.de>
Shane Kerr<kerr@wizard.net>
Gero Kuhlmann  <gero@gkminix.han.de>
Chad Page?page0588@sundance.sjsu.edu>
Dick Porter<dick@cymru.net>
Dale Schumacher<dal@syntel.UUCP>
Wietse Venema<wietse@wzv.win.tue.nl>
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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code 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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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c7f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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1.136 diffstat 1.59 :r0.0

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

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<program> Copyright (C) <year> <name of author>
This program 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.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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1.147 docbook-xml-dtd4-native 4.5-r0

1.148 docbook-xsl-stylesheets-native 1.79.1-r0
1.148.1 Available under license:

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<title>Jing Copying Conditions</title>
</head>

<body>
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See doc/content/index.html.
If the value of `<parameter>generate.legalnotice.link</parameter>` is non-zero, the stylesheet:

- writes the contents of `<tag>legalnotice</tag>` to a separate HTML file.
- inserts a hyperlink to the `<tag>legalnotice</tag>` file.
- adds (in the HTML `<literal>head</literal>`) either a single `<literal>link</literal>` or element or multiple `<literal>link</literal>` elements (depending on the value of the `<parameter>html.head.legalnotice.link.multiple</parameter>` parameter), with the value or values derived from the `<parameter>html.head.legalnotice.link.types</parameter>` parameter.

Otherwise, if `<parameter>generate.legalnotice.link</parameter>` is zero, `<tag>legalnotice</tag>` contents are rendered on the title page.

The name of the separate HTML file is computed as follows:

- If a filename is given by the `<tag class="xmlpi">dbhtml filename</tag>` processing instruction, that filename is used.
- If the legalnotice has an `<tag class="attribute">id</tag>` attribute, and if `<parameter>use.id.as.filename</parameter>` != 0, the filename is the concatenation of the id value and the value of the `<parameter>html.ext</parameter>` parameter.
- If the legalnotice does not have an `<tag class="attribute">id</tag>` attribute, or if `<parameter>use.id.as.filename</parameter>` = 0, the filename is the concatenation of "ln-", auto-generated id value, and `<parameter>html.ext</parameter>` value.
This parameter specifies whether the copyright info is generated in the footer area.

<html:head legal-notice-link-types="html-legal-notice-link-types">
  <param name="generate.copyright">1</param>
</html:head>

Specifies link types for legal-notice link in html head.

<html:head legal-notice-link-types="html-legal-notice-link-types">
  <param name="html-legal-notice-link-types">string</param>
</html:head>
The value of <parameter>html.head.legalnotice.link.types</parameter> is a space-separated list of link types, as described in <link xlink:href="http://www.w3.org/TR/html401/types.html#type-links">Section 6.12 of the HTML 4.01 specification</link>. If the value of the <parameter>generate.legalnotice.link</parameter> parameter is non-zero, then the stylesheet generates (in the <literal>head</literal> section of the HTML source) either a single <literal>link</literal> element or, if the value of the <parameter>html.head.legalnotice.link.multiple</parameter> is non-zero, one <literal>link</literal> element for each link type specified. Each <literal>link</literal> has the following attributes:

- a <tag class="attribute">rel</tag> attribute whose value is derived from the value of <parameter>html.head.legalnotice.link.types</parameter>
- an <tag class="attribute">href</tag> attribute whose value is set to the URL of the file containing the <tag>legalnotice</tag>
- a <tag class="attribute">title</tag> attribute whose value is set to the title of the corresponding <tag>legalnotice</tag> (or a title programatically determined by the stylesheet)

For example:

<screen>  <link rel="license" href="ln-id2524073.html" title="Legal Notice"></screen>
</para>

In an ideal world, the default value of <parameter>html.head.legalnotice.link.types</parameter> would probably be <literal>license</literal>, since the content of the
DocBook <tag>legalnotice</tag> is typically license information, not copyright information. However, the default value is <literal>copyright</literal> for pragmatic reasons: because that among the set of recognized link types listed in <link xlink:href="http://www.w3.org/TR/html401/types.html#type-links">Section 6.12 of the HTML 4.01 specification</link>, and because certain browsers and browser extensions are preconfigured to recognize that value.</para>
</refsection>

<refsection>
<refentry xmlns="http://docbook.org/ns/docbook"
    xmlns:xlink="http://www.w3.org/1999/xlink"
    xmlns:xi="http://www.w3.org/2001/XInclude"
    xmlns:src="http://nwalsh.com/xmlns/litprog/fragment"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
    version="5.0" xml:id="html.head.legalnotice.link.multiple">
<refmeta>
<refentrytitle>html.head.legalnotice.link.multiple</refentrytitle>
<refmiscinfo class="other" otherclass="datatype">boolean</refmiscinfo>
</refmeta>
<refnamediv>
<refname>html.head.legalnotice.link.multiple</refname>
<refpurpose>Generate multiple link instances in html head for legalnotice?</refpurpose>
</refnamediv>

<refsynopsisdiv>
<src:fragment xml:id="html.head.legalnotice.link.multiple.frag">
<xsl:param name="html.head.legalnotice.link.multiple" select="1"/>
</src:fragment>
</refsynopsisdiv>

<refsection><info><title>Description</title></info>

<para>If <parameter>html.head.legalnotice.link.multiple</parameter> is non-zero and the value of <parameter>html.head.legalnotice.link.types</parameter> contains multiple link types, then the stylesheet generates (in the <literal>head</literal> section of the HTML source) one <literal>link</literal> element for each link type specified. For example, if the value of <parameter>html.head.legalnotice.link.types</parameter> is <literal>copyright license</literal>:

<screen>  <link rel="copyright" href="ln-id2524073.html" title="Legal Notice">  <link rel="license" href="ln-id2524073.html" title="Legal Notice"></screen>

</para>

</refsection>
</refentry>
Otherwise, the stylesheet generates a single <literal>link</literal> instance; for example:

<screen>  <link rel="copyright license" href="ln-id2524073.html" title="Legal Notice"></screen>
</para>
</refsection>
</refentry>
<refentry xmlns="http://docbook.org/ns/docbook"
    xmlns:xlink="http://www.w3.org/1999/xlink"
    xmlns:xi="http://www.w3.org/2001/XInclude"
    xmlns:src="http://nwalsh.com/xmlns/litprog/fragment"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
    version="5.0" xml:id="man.copyright.section.enabled">
    <refmeta>
        <refentrytitle>man.copyright.section.enabled</refentrytitle>
        <refmiscinfo class="other" otherclass="datatype">boolean</refmiscinfo>
    </refmeta>
    <refnamediv>
        <refname>man.copyright.section.enabled</refname>
        <refpurpose>Display auto-generated COPYRIGHT section?</refpurpose>
    </refnamediv>
    <refsynopsisdiv>
        <src:fragment xml:id="man.copyright.section.enabled.frag">
            <xsl:param name="man.copyright.section.enabled">1</xsl:param>
        </src:fragment>
    </refsynopsisdiv>
    <refsection><info><title>Description</title></info>
        <para>If the value of <parameter>man.copyright.section.enabled</parameter> is non-zero
            (the default), then a <literal>COPYRIGHT</literal> section is
            generated near the end of each man page. The output of the
            <literal>COPYRIGHT</literal> section is assembled from any
            <tag>copyright</tag> and <tag>legalnotice</tag> metadata found in
            the contents of the child <tag>info</tag> or
            <tag>refentryinfo</tag> (if any) of the <tag>refentry</tag>
            itself, or from any <tag>copyright</tag> and
            <tag>legalnotice</tag> metadata that may appear in <tag>info</tag>
            contents of any ancestors of the <tag>refentry</tag>. </para>

        <para>If the value of
            <parameter>man.copyright.section.enabled</parameter> is zero, the
            the auto-generated <literal>COPYRIGHT</literal> section is
            suppressed.</para>

        <para>Set the value of
            <parameter>man.copyright.section.enabled</parameter> to zero if
you want to have a manually created <literal>COPYRIGHT</literal> section in your source, and you want it to appear in output instead of the auto-generated <literal>COPYRIGHT</literal> section.</para>
</refsection>
</refentry>

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<refentry xmlns="http://docbook.org/ns/docbook"
xmlns:xlink="http://www.w3.org/1999/xlink"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:src="http://nwalsh.com/xmlns/litprog/fragment"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
version="5.0" xml:id="html.head.legalnotice.link.types">
<para>The value of <parameter>html.head.legalnotice.link.types</parameter> is a space-separated list of link types, as described in <link xlink:href="http://www.w3.org/TR/html401/types.html#type-links">Section 6.12 of the HTML 4.01 specification</link>. If the value of the <parameter>generate.legalnotice.link</parameter> parameter is non-zero, then the stylesheet generates (in the <literal>head</literal> section of the HTML source) either a single HTML <literal>link</literal> element or, if the value of the <parameter>html.head.legalnotice.link.multiple</parameter> is non-zero, one <literal>link</literal> element for each link type specified. Each <literal>link</literal> has the following attributes:

<itemizedlist>
<listitem>
<para>a <tag class="attribute">rel</tag> attribute whose value is derived from the value of <parameter>html.head.legalnotice.link.types</parameter></para>
</listitem>
<listitem>
<para>an <tag class="attribute">href</tag> attribute whose value is set to the URL of the file containing the <tag>legalnotice</tag></para>
</listitem>
<listitem>
<para>a <tag class="attribute">title</tag> attribute whose value is set to the title of the corresponding <tag>legalnotice</tag> (or a title programmatically determined by the stylesheet)</para>
</listitem>
</itemizedlist>
For example:

```xml
<screen>
  <link rel="license" href="ln-id2524073.html" title="Legal Notice"/>
</screen>
</para>

<refsection><info><title>About the default value</title></info>

<para>
In an ideal world, the default value of 
<parameter>html.head.legalnotice.link.types</parameter> would 
probably be <literal>license</literal>, since the content of the 
DocBook <tag>legalnotice</tag> is typically license 
information, not copyright information. However, the default value 
is <literal>copyright</literal> for pragmatic reasons: because 
that's among the set of recognized link types listed in <link 
xlink:href="http://www.w3.org/TR/html401/types.html#type-links">Section 
6.12 of the HTML 4.01 specification</link>, and because certain 
browsers and browser extensions are preconfigured to recognize that 
value.</para>
</refsection>

</refsection>
</refentry>

<refentry xmlns="http://docbook.org/ns/docbook"
  xmlns:xlink="http://www.w3.org/1999/xlink"
  xmlns:xi="http://www.w3.org/2001/XInclude"
  xmlns:src="http://nwalsh.com/xmlns/litprog/fragment"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  version="5.0" xml:id="html.head.legalnotice.link.multiple">
  <refmeta>
    <refentrytitle>html.head.legalnotice.link.multiple</refentrytitle>
    <refmiscinfo class="other" otherclass="datatype">boolean</refmiscinfo>
  </refmeta>
  <refnamediv>
    <refname>html.head.legalnotice.link.multiple</refname>
    <refpurpose>Generate multiple link instances in html head for legalnotice?</refpurpose>
  </refnamediv>
  <refsynopsisdiv>
    <src:fragment xml:id="html.head.legalnotice.link.multiple.frag">
      <xsl:param name="html.head.legalnotice.link.multiple" select="1"/>
    </src:fragment>
  </refsynopsisdiv>
  <refsection><info><title>Description</title></info>

  <para>If <parameter>html.head.legalnotice.link.multiple</parameter> is 
  non-zero and the value of 
  <parameter>html.head.legalnotice.link.types</parameter> contains
multiple link types, then the stylesheet generates (in the
<link>head</link> section of the HTML source) one
<link>link</link> element for each link type specified. For
example, if the value of
<parameter>html.head.legalnotice.link.types</parameter> is
<link>copyright license</link>:

<screen>
  <link rel="copyright" href="ln-id2524073.html" title="Legal Notice">
  <link rel="license" href="ln-id2524073.html" title="Legal Notice">
</screen>

Otherwise, the stylesheet generates generates a single
<link>link</link> instance; for example:

<screen>
  <link rel="copyright license" href="ln-id2524073.html" title="Legal Notice">
</screen>

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2000-05-05
xml-commons/java/external/README.dom.txt $Id: README.dom.txt 477038 2006-11-20 04:40:36Z mrglavas $

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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $
1.149 docker 1.10.0

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Gocheck - A rich testing framework for Go

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1.152 dpdk 2.0.0 :r0.0

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1.153 dpkg-native 1.18.24-r0

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 * http://code.google.com/p/curve25519-donna/
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 * Adam Langley <agl@imperialviolet.org>
 *
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 */
* More information about curve25519 can be found here
  * http://cr.yp.to/ecdh.html
*
* djb's sample implementation of curve25519 is written in a special assembly
  * language called qhasm and uses the floating point registers.
  *
* This is, almost, a clean room reimplementation from the curve25519 paper. It
  * uses many of the tricks described therein. Only the crecip function is taken
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  */

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David Gibson <david@gibson.dropbear.id.au>
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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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.)

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This is a Makefile stub which handles the creation of BSD shared libraries.

In order to use this stub, the following makefile variables must be defined.

- BSDLIB_VERSION = 1.0
- BSDLIB_IMAGE = libce
- BSDLIB_MYDIR = et
- BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ./$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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*/

Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
-    Unix SMB/CIFS implementation.
+    trivial database library - standalone version
-    trivial database library - private includes
-    Copyright (C) Andrew Tridgell              2005
+    Copyright (C) Andrew Tridgell              1999-2005
+    Copyright (C) Jeremy Allison               2000-2006
+    Copyright (C) Paul 'Rusty' Russell         2000

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
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1.162 e2fsprogs 1.42.9 :r0.0
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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
*/
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version
- trivial database library - private includes
-
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** library. This does NOT imply that all of Samba is released
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB) : $(OBJS)
(cdd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \$(DESTDIR)$($(BSDLIB_INSTALL_DIR)/$(BSD_LIB))
@-$(LDCONFIG)

install-strip: install
install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$ (RM) - f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$ (RM) - rf pic
$ (RM) - f $(BSD_LIB)
$ (RM) - f ../*.$(BSD_LIB)

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Gadi Oxman, August 1995

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>,
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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Theodore Ts'o
23-June-2007

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

That's all there is to it!
#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBSJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBSJ))
$(MV) pic/$($(BSD_LIB) .)
$(RM) -f ../$($(BSD_LIB)
(cd ..; $(LD) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \ $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../*$(BSD_LIB)
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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 */
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell 2005
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+ Copyright (C) Jeremy Allison 2000-2006
+ Copyright (C) Paul 'Rusty' Russell 2000

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** library. This does NOT imply that all of Samba is released
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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1.164 ed 1.9 :r0.0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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1.185 fcgi 2.4.1+SNAP+0311112127 :r0.0
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1.186 ffmpeg 3.3.3-r0

1.186.1 Available under license :

# License

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Some optional parts of FFmpeg are licensed under the GNU General Public License version 2 or later (GPL v2+). See the file `COPYING.GPLv2` for details. None of these parts are used by default, you have to explicitly pass `--enable-gpl` to configure to activate them. In this case, FFmpeg's license changes to GPL v2+.

Specifically, the GPL parts of FFmpeg are:

- libpostproc
- optional x86 optimization in the files
  - `libavcodec/x86/flac_dsp_gpl.asm`
  - `libavcodec/x86/idct_mmx.c`
  - `libavfilter/x86/vf_removegrain.asm`
- the following building and testing tools
  - `compat/solaris/make_sunver.pl`
  - `doc/t2h.pm`
- `doc/texi2pod.pl`
- `libswresample/swresample-test.c`
- `tests/checkasm/*`
- `tests/tiny_ssim.c`
- the following filters in libavfilter:
  - `vf_blackframe.c`
  - `vf_boxblur.c`
  - `vf_colormatrix.c`
  - `vf_cover_rect.c`
  - `vf_cropdetect.c`
  - `vf_delogo.c`
  - `vf_eq.c`
  - `vf_find_rect.c`
  - `vf_fspp.c`
  - `vf_geq.c`
  - `vf_histeq.c`
  - `vf_hqdn3d.c`
  - `vf_interlace.c`
  - `vf_kerndeint.c`
  - `vf_mcddeint.c`
  - `vf_mpddecimate.c`
  - `vf_owdnoise.c`
  - `vf_perspective.c`
  - `vf_phase.c`
  - `vf_pp.c`
  - `vf_pp7.c`
  - `vf_pullup.c`
  - `vf_repeatfields.c`
  - `vf_sab.c`
  - `vf_smartblur.c`
  - `vf_spp.c`
  - `vf_stereo3d.c`
  - `vf_super2xsaie.c`
  - `vf_tinterlace.c`
  - `vf_uspp.c`
  - `vsrc_mptestssrc.c`

Should you, for whatever reason, prefer to use version 3 of the (L)GPL, then the configure parameter `--enable-version3` will activate this licensing option for you. Read the file `COPYING.LGPLv3` or, if you have enabled GPL parts, `COPYING.GPLv3` to learn the exact legal terms that apply in this case.

There are a handful of files under other licensing terms, namely:

* 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
- librubberband
- 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.

The OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.

### Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these libraries, even in circumstances that their license may be incompatible, 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.

The Fraunhofer FDK AAC and OpenSSL libraries are under licenses which are incompatible with the GPLv2 and v3. To the best of our knowledge, they are compatible with the LGPL.

The NVENC library, while its header file is licensed under the compatible MIT license, requires a proprietary binary blob at run time, and is deemed to be incompatible with the GPL. We are not certain if it is compatible with the
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Version 2.1, February 1999

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free
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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.

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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.

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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.)

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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.

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src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
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Contains FreeRTOS trace macros to write trace data to STM address space on ZU+. STM generates STPI packets, which are consumed by SDK to generate trace.

MODIFICATION HISTORY: Ver Who Date Changes ----- ---- -------- 1.00a sdm 07/15/16 Initial version

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FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Makefile_microblaze

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FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Makefile_ps7_cortexa9
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Makefile_psu_cortexr5

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FILES:
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embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/GCC/ARM_CA53/port.c
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/GCC/ARM_CA9/port.c
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/GCC/ARM_CR5/port.c
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/stream_buffer.c
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/tasks.c
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/timers.c
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1 tab 4 spaces! / This is the list implementation used by the scheduler. While it is tailored heavily for the schedulers needs, it is also available for use by application code. list_ts can only store pointers to list_item_ts. Each ListItem_t contains a numeric value (xItemValue). Most of the time the lists are sorted in descending item value order. Lists are created already containing one list item. The value of this item is the maximum possible that can be stored, it is therefore always at the end of the list and acts as a marker. The list member pxHead always points to this marker - even though it is at the tail of the list. This is because the tail contains a wrap back pointer to the true head of the list. In addition to it's value, each list item contains a pointer to the next item in the list (pxNext), a pointer to the list it is in (pxContainer) and a pointer to back to the object that contains it. These later two pointers are included for efficiency of list manipulation. There is effectively a two way link between the object containing the list item and the list item itself. 

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src(Source/include/list.h

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Message buffers build functionality on top of FreeRTOS stream buffers. Whereas stream buffers are used to send a continuous stream of data from one task or interrupt to another, message buffers are used to send variable length discrete messages from one task or interrupt to another. Their implementation is light weight, making them particularly suited for interrupt to task and core to core communication scenarios. NOTE: Uniquely among FreeRTOS objects, the stream buffer implementation (so also the message buffer implementation, as message buffers are built on top of stream buffers) assumes there is only one task or interrupt that will write to the buffer (the writer), and only one task or interrupt that will read from the buffer (the reader). It is safe for the writer and reader to be different tasks or interrupts, but, unlike other FreeRTOS objects, it is not safe to have multiple different writers or multiple different readers. If there are to be multiple different writers then the application writer must place each call to a writing API function (such as xMessageBufferSend()) inside a critical section and set the send block time to 0. Likewise, if there are to be multiple different readers then the application writer must place each call to a reading API function (such as xMessageBufferRead()) inside a critical section and set the receive timeout to 0. Message buffers hold variable length messages. To enable that, when a message is written to the message buffer an additional sizeof( size_t ) bytes are also written to store the message's length (that happens internally, with the API function). sizeof( size_t ) is typically 4 bytes on a 32-bit architecture, so writing a 10 byte message to a message buffer on a 32-bit architecture will actually reduce the available space in the message buffer by 14 bytes (10 byte are used by the message, and 4 bytes to hold the length of the message).

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/include/message_buffer.h

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http://www.FreeRTOS.org http://aws.amazon.com/freertos 1 tab 4 spaces! / When the MPU is used the standard (non MPU) API functions are mapped to equivalents that start "MPU_", the prototypes for which are defined in this header files. This will cause the application code to call the MPU_ version which wraps the non-MPU version with privilege promoting then demoting code, so the kernel code always runs will full privileges. /

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/include/mpu_prototypes.h

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Portable layer API. Each function must be defined for each port.
----------------------------------------------

files:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/include/portable.h

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Stream buffers are used to send a continuous stream of data from one task or interrupt
to another. Their implementation is light weight, making them particularly
suited for interrupt to task and core to core communication scenarios. NOTE:
Uniquely among FreeRTOS objects, the stream buffer implementation (so also the
message buffer implementation, as message buffers are built on top of stream
buffers) assumes there is only one task or interrupt that will write to the
buffer (the writer), and only one task or interrupt that will read from the
buffer (the reader). It is safe for the writer and reader to be different tasks
or interrupts, but, unlike other FreeRTOS objects, it is not safe to have
multiple different writers or multiple different readers. If there are to be
multiple different writers then the application writer must place each call to a
writing API function (such as xStreamBufferSend()) inside a critical section and set the send block time to 0. Likewise, if there are to be multiple different readers then the application writer must place each call to a reading API function (such as xStreamBufferRead()) inside a critical section section and set the receive block time to 0. /

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/include/stream_buffer.h

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embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/GCC/ARM_CA9/portZynq7000.c
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/GCC/ARM_CR5/portZynqUltrascale.c
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/GCC/MicroBlazeV9/portmicroblaze.c

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Implementation of functions defined in portable.h for the MicroBlaze port.

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/GCC/MicroBlazeV9/port.c

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FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/GCC/MicroBlazeV9/port_exceptions.c
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simplest possible implementation of pvPortMalloc(). Note that this
implementation does NOT allow allocated memory to be freed again. See heap_2.c,
heap_3.c and heap_4.c for alternative implementations, and the memory management
pages of http://www.FreeRTOS.org for more information. /

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/MemMang/heap_1.c
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http://www.FreeRTOS.org http://aws.amazon.com/freertos 1 tab 4 spaces! / A sample implementation of pvPortMalloc() and vPortFree() that permits allocated blocks to be freed, but does not combine adjacent free blocks into a single larger block (and so will fragment memory). See heap_4.c for an equivalent that does combine adjacent blocks into single larger blocks. See heap_1.c, heap_3.c and heap_4.c for alternative implementations, and the memory management pages of http://www.FreeRTOS.org for more information. /

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/MemMang/heap_2.c

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Implementation of pvPortMalloc() and vPortFree() that relies on the compilers own malloc() and free() implementations. This file can only be used if the linker is configured to to generate a heap memory area. See heap_1.c, heap_2.c and heap_4.c for alternative implementations, and the memory management pages of http://www.FreeRTOS.org for more information. /

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/MemMang/heap_3.c

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A sample implementation of pvPortMalloc() and vPortFree() that combines (coalescences) adjacent memory blocks as they are freed, and in so doing limits memory fragmentation. See heap_1.c, heap_2.c and heap_3.c for alternative implementations, and the memory management pages of http://www.FreeRTOS.org for more information. /

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sample implementation of pvPortMalloc() that allows the heap to be defined
across multiple non-contiguous blocks and combines (coalescences) adjacent memory
blocks as they are freed. See heap_1.c, heap_2.c, heap_3.c and heap_4.c for
alternative implementations, and the memory management pages of
http://www.FreeRTOS.org for more information. Usage notes:
vPortDefineHeapRegions() must be called before pvPortMalloc(). pvPortMalloc()
will be called if any task objects (tasks, queues, event groups, etc.) are
created, therefore vPortDefineHeapRegions() must be called before any other
objects are defined. vPortDefineHeapRegions() takes a single parameter. The
parameter is an array of HeapRegion_t structures. HeapRegion_t is defined in
portable.h as typedef struct HeapRegion { uint8_t pucStartAddress; << Start
address of a block of memory that will be part of the heap. size_t xSizeInBytes;
<< Size of the block of memory. } HeapRegion_t; The array is terminated using a
NULL zero sized region definition, and the memory regions defined in the array
must appear in address order from low address to high address. So the following
is a valid example of how to use the function. HeapRegion_t xHeapRegions[] { { (uint8_t)0x80000000UL, 0x10000 }, << Defines a block of 0x10000 bytes starting
at address 0x80000000 { (uint8_t)0x90000000UL, 0xa0000 }, << Defines a block
of 0xa0000 bytes starting at address of 0x90000000 { NULL, 0 } << Terminates the
array. }; vPortDefineHeapRegions( xHeapRegions ); << Pass the array into
vPortDefineHeapRegions(). Note 0x80000000 is the lower address so appears in the
array first. /
FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/MemMang/heap_5.c

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Open Source Used In IOS XR Release 7.0.1

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ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / @file alloc.h @brief Memory
allocation handling primitives for libmetal. /

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primitives for libmetal. /

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ADvised OF THE POSSIBILITY OF SUCH DAMAGE. / @file compiler.h @brief Compiler
specific primitives for libmetal. /

FILES:
eMBEDDedsW/thirdparty/sw_services/libmetal/src/libmetal/lib/compiler.h
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ADvised OF THE POSSIBILITY OF SUCH DAMAGE. / @file condition.h @brief Condition
variable for libmetal. /

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FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/config.h

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ADvised OF THE POSSIBILITY OF SUCH DAMAGE. / @file dma.h @brief DMA primitives
for libmetal. /

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OF SUCH DAMAGE. / @file io.h @brief I/O access primitives for libmetal. /

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embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/log.h

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Generic libmetal shared memory handling. /

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ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / @file shmem.h @brief Shared memory
primitives for libmetal. /

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@file time.h @brief Time primitives

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specific primitives for libmetal. /

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primatives /

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primatives on microblaze platform. /

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FreeRTOS libmetal memory allocation definitions. /

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OF SUCH DAMAGE. / @file freertos/irq.c @brief FreeRTOS libmetal irq definitions.

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FreeRTOS libmetal shared memory handling. /

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freertos libmetal sleep handling. /

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primitives implementation. /

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freertos zynq7 system primitives for libmetal. /

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@brief machine specific system primitives implementation. /

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@brief freertos zynqmp_a53 system primitives for libmetal. /

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@brief machine specific system primitives implementation. /

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@brief freertos zynqmp_r5 system primitives for libmetal. /

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generic libmetal memory allocation definitions. /

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generic libmetal cache handling. /

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Generic libmetal device operations. /

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libmetal initialization. /

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ADvised OF THE POSSIBILITY OF SUCH DAMAGE. / @file generic/sleep.c @brief

Generic libmetal sleep handling. /

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libmetal time handling. /

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ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / @file generic/io.c @brief Generic
libmetal io operations /

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@brief machine specific system primitives implementation.

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@brief generic zynqmp_a53 system primitives for libmetal. /

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@brief machine specific system primitives implementation. /

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@brief generic zynqmp_r5 system primitives for libmetal. /

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utility functions. */

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OF SUCH DAMAGE. / @file zephyr/cache.c @brief Zephyr libmetal cache handling. /

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OF SUCH DAMAGE. / @file zephyr/condition.c @brief Zephyr libmetal condition
variable handling. /

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OF SUCH DAMAGE. / @file zephyr/init.c @brief Zephyr libmetal initialization. /

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OF SUCH DAMAGE. / @file zephyr/io.h @brief Zephyr specific io definitions. /

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OF SUCH DAMAGE. / @file zephyr/mutex.h @brief Zephyr mutex primitives for
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@file zephyr/shmem.c
@brief Zephyr libmetal shared memory handling.

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@brief Zephyr libmetal sleep handling.

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@file system/zephyr/metal-test-internal.h
@brief Zephyr include internal to libmetal tests. /

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FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/api/tcpip.c
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/api/tcpip.c

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This is a DHCP client for the lwIP TCP/IP stack. It aims to conform with RFC 2131 and RFC 2132. TODO:
- Support for interfaces other than Ethernet (SLIP, PPP, ...) Please coordinate changes and requests with Leon Woestenberg <leon.woestenberg@gmx.net>

Integration with your code: In lwip/dhcp.h define DHCP_COARSE_TIMER_SECS (recommended 60 which is a minute) define DHCP_FINE_TIMER_MSECS (recommended 500 which equals TCP coarse timer) Then have your application call dhcp_coarse_tmr() and dhcp_fine_tmr() on the defined intervals. dhcp_start(struct netif netif);
starts a DHCP client instance which configures the interface by obtaining an IP address lease and maintaining it. Use dhcp_release(netif) to end the lease and use dhcp_stop(netif) to remove the DHCP client.

FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/dhcp.c

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@file DNS - host name to IP address resolver. / This file implements a DNS host name to IP address resolver. Port to lwIP from uIP by Jim Pettinato April 2007
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DNS.C The lwIP DNS resolver functions are used to lookup a host name and map it to a numerical IP address. It maintains a list of resolved hostnames that can be queried with the dns_lookup() function. New hostnames can be resolved using the dns_query() function. The lwIP version of the resolver also adds a non-blocking version of gethostbyname() that will work with a raw API application. This
function checks for an IP address string first and converts it if it is valid. 
gethostbyname() then does a dns_lookup() to see if the name is already in the 
table. If so, the IP is returned. If not, a query is issued and the function 
returns with a ERR_INPROGRESS status. The app using the dns client must then go 
into a waiting state. Once a hostname has been resolved (or found to be non- 
existent), the resolver code calls a specified callback function (which must be 
implemented by the module that uses the resolver). / RFC 1035 - Domain names - 
implementation and specification RFC 2181 - Clarifications to the DNS 
Specification
@todo: define good default values (rfc compliance) / @todo: improve answer 
parsing, more checkings... / @todo: check RFC1035 - 7.3. Processing responses / 
Includes
FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/dns.c

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stack. Author: Adam Dunkels <adam@sics.se> /

FILES:
@file Dynamic memory manager

This is a lightweight replacement for the standard C library malloc(). If you want to use the standard C library malloc() instead, define MEM_LIBC_MALLOC to 1 in your lwipopts.h To let mem_malloc() use pools (prevents fragmentation and is much faster than a heap but might waste some memory), define MEM_USE_POOLS to 1, define MEM_USE_CUSTOM_POOLS to 1 and create a file "lwippools.h" that includes a list of pools like this (more pools can be added between _START and _END): Define three pools with sizes 256, 512, and 1512 bytes LWIP_MALLOC_MEMPOOL_START LWIP_MALLOC_MEMPOOL(20, 256) LWIP_MALLOC_MEMPOOL(10, 512) LWIP_MALLOC_MEMPOOL(5, 1512) LWIP_MALLOC_MEMPOOL_END

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FILES:

embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/mem.c

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@file Dynamic pool memory manager lwIP has dedicated pools for many structures
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embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/memp.c
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@file Packet buffer management Packets are built from the pbuf data structure. It supports dynamic memory allocation for packet contents or can reference externally managed packet contents both in RAM and ROM. Quick allocation for incoming packets is provided through pools with fixed sized pbufs. A packet may span over multiple pbufs, chained as a singly linked list. This is called a "pbuf chain". Multiple packets may be queued, also using this singly linked list. This is called a "packet queue". So, a packet queue consists of one or more pbuf chains, each of which consist of one or more pbufs. CURRENTLY, PACKET QUEUES ARE NOT SUPPORTED!!! Use helper structs to queue multiple packets. The differences between a pbuf chain and a packet queue are very precise but subtle. The last pbuf of a packet has a ->tot_len field that equals the ->len field. It can be found by traversing the list. If the last pbuf of a packet has a ->next field other than NULL, more packets are on the queue. Therefore, looping through a pbuf of a single packet, has an loop end condition (tot_len p->len), NOT (next NULL). / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
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@file Implementation of raw protocol PCBs for low-level handling of different types of protocols besides (or overriding) those already available in lwIP. /
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@file Transmission Control Protocol for IP This file contains common functions
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@file Transmission Control Protocol, incoming traffic
The input processing functions of the TCP layer. These functions are generally called in the order
(ip_input() ->) tcp_input() -> tcp_process() -> tcp_receive() (- > application).
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FILES:
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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/timeouts.c

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stack. Author: Adam Dunkels <adam@sics.se> / udp.c The code for the User
Datagram Protocol UDP & UDPLite (RFC 3828). / @todo Check the use of `(struct
udp_pcb).chksum_len_rx' /

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- First, call autoip_init(). - call autoip_tm(r)() all AUTOIP_TMR_INTERVAL msces, that should be defined in autoip.h. I recommend a value of 100. The value must divide 1000 with a remainder almost 0. Possible values are 1000, 500, 333, 250, 200, 166, 142, 125, 111, 100 ... Without DHCP: - Call autoip_start() after netif_add(). With DHCP: - define LWIP_DHCP_AUTOIP_COOP 1 in your lwipopts.h. - Configure your DHCP Client. /

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@file SNMP output message processing (RFC1157). Output responses and traps are
build in two passes: Pass 0: iterate over the output message backwards to
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into ASN1. The single-pass encoding method described by Comer & Stevens requires extra buffer space and copying for reversal of the packet. The buffer requirement can be prohibitively large for big payloads (> 484) therefore we use the two encoding passes. / Copyright (c) 2006 Axon Digital Design B.V., The Netherlands. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR `AS IS` AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. Author: Christiaan Simons <christiaan.simons@axon.tv> / FILES:
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FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/netif/ethernetif.c
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/netif/ethernetif.c

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embeddedsw/ThirdParty/sw_services/lwip202/src/contrib/ports/xilinx/netif/xemacpsif_hw.c 
embeddedsw/ThirdParty/sw_services/lwip202/src/contrib/ports/xilinx/netif/xemacpsif_hw.h 
embeddedsw/ThirdParty/sw_services/lwip202/src/contrib/ports/xilinx/netif/xpqueue.c 
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/src/xv_hdmitxss_log.c
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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/Filelists.mk

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@file Sequential API External module @defgroup netconn Netconn API @ingroup sequential_api Thread-safe, to be called from non-TCPIP threads only. TX/RX handling based on @ref netbuf (containing @ref pbuf) to avoid copying data around. @defgroup netconn_common Common functions @ingroup netconn For use with TCP and UDP @defgroup netconn_tcp TCP only @ingroup netconn TCP only functions @defgroup netconn_udp UDP only @ingroup netconn UDP only functions / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
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--------------------------------------------------------------------------------

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@file Network buffer management @defgroup netbuf Network buffers @ingroup netconn Network buffer descriptor for @ref netconn. Based on @ref pbuf internally to avoid copying data around. Buffers must not be shared accross multiple threads, all functions except netbuf_new() and netbuf_delete() are not thread-safe. / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This file is part of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se> /

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@file API functions for name resolving @defgroup netdbapi NETDB API @ingroup
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@file Network Interface Sequential API module @defgroup netifapi NETIF API
@ingroup sequential_api Thread-safe functions to be called from non-TCPIP
threads @defgroup netifapi_netif NETIF related @ingroup netifapi To be called
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@file Sockets BSD-Like API module @defgroup socket Socket API @ingroup sequential_api BSD-style socket API.\nThread-safe, to be called from non-TCPIP threads only.\nCan be activated by defining @ref LWIP_SOCKET to 1.\nHeader is in posix/sys/socket.h / Copyright (c) 2001-2004 Swedish Institute of Computer
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<marc@mbsi.ca> and David Haas <dhaas@alum.rpi.edu> / 

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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/include/lwip/apps/fs.h
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of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se> Simon Goldschmidt

/* @defgroup httpd HTTP server @ingroup apps This httpd supports for a
 rudimentary server-side-include facility which will replace tags of the form <!
--tag in any file whose extension is .shtml, .shtm or .ssi with strings provided
by an include handler whose pointer is provided to the module via function
http_set_ssi_handler(). Additionally, a simple common gateway interface (CGI)
handling mechanism has been added to allow clients to hook functions to
particular request URIs. To enable SSI support, define label LWIP_HTTPD_SSI in lwipopts.h. To enable CGI support, define label LWIP_HTTPD_CGI in lwipopts.h. By
default, the server assumes that HTTP headers are already present in each file
stored in the file system. By defining LWIP_HTTPD_DYNAMIC_HEADERS in lwipopts.h,
this behavior can be changed such that the server inserts the headers
automatically based on the extension of the file being served. If this mode is
used, be careful to ensure that the file system image used does not already
contain the header information. File system images without headers can be
created using the makefsfile tool with the -h command line option. Notes about
valid SSI tags The following assumptions are made about tags used in SSI
markers: 1. No tag may contain ‘-’ or whitespace characters within the tag name.
2. Whitespace is allowed between the tag leadin “<!--” and the start of the tag
name and between the tag name and the leadout string “". 3. The maximum tag name
length is LWIP_HTTPD_MAX_TAG_NAME_LEN, currently 8 characters. Notes on CGI
usage The simple CGI support offered here works with GET method requests only
and can handle up to 16 parameters encoded into the URI. The handler function
may not write directly to the HTTP output but must return a filename that the
HTTP server will send to the browser as a response to the incoming CGI request.
The list of supported file types is quite short, so if makefsdata complains
about an unknown extension, make sure to add it (and its doctype) to the
'g_psHTTPHeaders' list. */

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@file lwIP iPerf server implementation / @defgroup iperf Iperf server @ingroup apps
This is a simple performance measuring server to check your bandwith using
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IPv4 TCP server only. @todo: implement UDP mode and IPv6 / Copyright (c) 2014
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@file MDNS responder implementation @defgroup mdns MDNS @ingroup apps
RFC 6762 - Multicast DNS\n RFC 6763 - DNS-Based Service Discovery\n @verbatim include mdns.txt
Things left to implement: - Probing/conflict resolution - Sending goodbye
Checking that source address of unicast requests are on the same network - Limiting multicast responses to 1 per second per resource record - Fragmenting replies if required - Subscribe to netif address/link change events and act on them (currently needs to be done manually) - Handling multi-packet known answers - Individual known answer detection for all local IPv6 addresses - Dynamic size of outgoing packet / Copyright (c) 2015 Verisure Innovation AB All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This file is part of the lwIP TCP/IP stack. Author: Erik Ekman <erik@kryo.se> /

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The agent implements the most important MIB2 MIBs including IPv6 support (interfaces, UDP, TCP, SNMP, ICMP, SYSTEM). IP MIB is an older version without IPv6 statistics (TODO).

Rewritten by Martin Hentschel <info@cl-soft.de> and Dirk Ziegelmeier <dziegel@gmx.de>

Work on SNMPv3 has started, but is not finished.

0 Agent Capabilities

- Low RAM usage - no memory pools, stack only.
- MIB2 implementation is separated from SNMP stack.
- Support for multiple MIBs (snmp_set_mibs() call) - e.g. for private MIB.
- Simple and generic API for MIB implementation.
- Comfortable node types and helper functions for scalar arrays and tables.
- Counter64, bit and truthvalue datatype support.
- Callbacks for SNMP writes e.g. to implement persistency.
- Runs on two APIs: RAW and netconn.
- Async API is gone - the stack now supports netconn API instead, so blocking operations can be done in MIB calls. SNMP runs in a worker thread when netconn API is used.
- Simplified thread sync support for MIBs - useful when MIBs need to access variables shared with other threads where no locking is possible. Used in MIB2 to access lwIP stats from lwIP thread. MIB compiler (code generator):
- Provided in lwIP contrib repository.
- Written in C. MIB viewer used Windows Forms.
- Developed on Windows with Visual Studio 2010.
- Can be compiled and used on all platforms with http://www.monodevelop.com/.
- Based on a heavily modified version of of SharpSnmpLib (a4bd05c6af4b) (https://sharpsnmplib.codeplex.com/SourceControl/network/forks/Nemo157/MIBParserUpdate).
- MIB parser, C file generation framework and LWIP code generation are cleanly separated, which means the code may be useful as a base for code generation of other SNMP agents.

Notes:
- Stack and MIB compiler were used to implement a Profinet device.

Compiled/implemented MIBs: LLDP-MIB, LLDP-EXT-DOT3-MIB, LLDP-EXT-PNO-MIB, SNMPv1 per RFC1157 and SNMPv2c per RFC 3416 Note the S in SNMP stands for "Simple".

Note that "Simple" is relative. SNMP is simple compared to the complex ISO network management protocols CMIP (Common Management Information Protocol) and CMOT (CMip Over Tcp). MIB II The standard lwIP stack management information base. This is a required MIB, so this is always enabled. The groups EGP, CMOT and transmission are disabled by default. Most mib-2 objects are not writable except: sysName, sysLocation, sysContact, snmpEnableAuthenTraps. Writing to or changing the ARP and IP address and route tables is not possible. Note lwIP has a very limited notion of IP routing. It currently doesn't have a route table and doesn't have a notion of the U,G,H flags. Instead lwIP uses the interface list with only one default interface acting as a single gateway interface (G) for the default route. The agent returns a "virtual table" with the default route 0.0.0.0 for the default interface and network routes (no H) for each network interface in the netif_list. All routes are considered to be up (U). Loading additional MIBs MIBs can only be added in compile-time, not in run-time.

Building the Agent First of all you'll need to add the following define to your
local lwipopts.h: `define LWIP_SNMP 1 and add the source files your makefile.  
Note you'll might need to adapt you network driver to update the mib2 variables for your interface.  
2 Running the Agent The following function calls must be made in your program to actually get the SNMP agent running. Before starting the agent you should supply pointers for sysContact, sysLocation, and snmpEnableAuthenTraps. You can do this by calling - snmp_mib2_set_syscontact() - snmp_mib2_set_syslocation() - snmp_set_auth_traps_enabled() You can register a callback which is called on successful write access: snmp_set_write_callback(). Additionally you may want to set - snmp_mib2_set_sysdescr() - snmp_set_deviceenterprise_oid() - snmp_mib2_set_sysname() Also before starting the agent you need to setup one or more trap destinations using these calls: - snmp_trap_dst_enable() - snmp_trap_dst_ip_set() If you need more than MIB2, set the MIBs you want to use by snmp_set_mibs(). Finally, enable the agent by calling snmp_init() @defgroup snmp_core Core @ingroup snmp @defgroup snmp_traps Traps @ingroup snmp /

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--------------------------------------------------------------------------------
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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/snmp/snmp_threadsync.c

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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/snmp/snmpv3_dummy.c

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FILES:
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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwp-2.0.2/src/apps/snmp/snmpv3_priv.h
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@ingroup apps This is simple "SNTP" client for the lwIP raw API. It is a minimal implementation of SNTPv4 as specified in RFC 4330. For a list of some public NTP servers, see this link : http://support.ntp.org/bin/view/Servers/NTPPoolServers @todo: - set/change servers at runtime - complete SNTP_CHECK_RESPONSE checks 3 and 4 /

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/sntp/sntp.c

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@file tftp_server.c @author Logan Gunthorpe <logang@deltatee.com> Dirk Ziegelmeier <dziegel@gmx.de> @brief Trivial File Transfer Protocol (RFC 1350)
@defgroup tftp TFTP server @ingroup apps
This is simple TFTP server for the lwIP raw API.

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/tftp/tftp_server.c

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@file Common functions used throughout the stack. These are reference implementations of the byte swapping functions. Again with the aim of being simple, correct and fully portable. Byte swapping is the second thing you would want to optimize. You will need to port it to your architecture and in your cc.h:
#define lwip_htons(x) your_htons
#define lwip_ntohs(x) your_ntohs
Note lwip_htons() and lwip_ntohs() are merely references to the htonl counterparts.
If you define them to htons() and htonl(), you should define LWIP_DONT_PROVIDE_BYTEORDER_FUNCTIONS to prevent lwIP from defining htonl/ntohl compatibility macros.

@defgroup sys_nonstandard Non-standard functions @ingroup sys_layer lwIP provides default implementations for non-standard functions. These can be mapped to OS functions to reduce code footprint if desired. All defines related to this section must not be placed in lwipopts.h, but in arch/cc.h! These options cannot be defined in lwipopts.h since they are not options of lwIP itself, but options of the lwIP port to your system. / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved.
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This file is part of the lwIP TCP/IP stack. Author: Simon Goldschmidt /

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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/def.c
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 @file DNS - host name to IP address resolver. @defgroup dns DNS @ingroup callbackstyle_api Implements a DNS host name to IP address resolver. The lwIP DNS resolver functions are used to lookup a host name and map it to a numerical IP address. It maintains a list of resolved hostnames that can be queried with the dns_lookup() function. New hostnames can be resolved using the dns_query() function. The lwIP version of the resolver also adds a non-blocking version of gethostbyname() that will work with a raw API application. This function checks for an IP address string first and converts it if it is valid. gethostbyname() then does a dns_lookup() to see if the name is already in the table. If so, the IP is returned. If not, a query is issued and the function returns with a ERR_INPROGRESS status. The app using the dns client must then go into a waiting state. Once a hostname has been resolved (or found to be non-existent), the resolver code calls a specified callback function (which must be implemented by the module that uses the resolver). Multicast DNS queries are supported for names ending on ".local". However, only "One-Shot Multicast DNS Queries" are supported (RFC 6762 chapter 5.1), this is not a fully compliant implementation of continuous mDNS querying! All functions must be called from TCPIP thread. @see @ref netconn_common for thread-safe access. / Port to lwIP from uIP by Jim
@file Include internet checksum functions.

These are some reference implementations of the checksum algorithm, with the aim of being simple, correct and fully portable. Checksumming is the first thing you would want to optimize for your platform. If you create your own version, link it in and in your cc.h put: \define LWIP_CHKSUM your_checksum_routine

Or you can select from the implementations below by defining LWIP_CHKSUM_ALGORITHM to 1, 2 or 3.

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<adam@sics.se> /

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/inet_chksum.c

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@file Common IPv4 and IPv6 code @defgroup ip IP @ingroup callbackstyle_api
@defgroup ip4 IPv4 @ingroup ip @defgroup ip6 IPv6 @ingroup ip @defgroup ipaddr
IP address handling @ingroup infrastructure @defgroup ip4addr IPv4 only @ingroup
ipaddr @defgroup ip6addr IPv6 only @ingroup ipaddr / Copyright (c) 2001-2004
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@file Dynamic memory manager This is a lightweight replacement for the standard C library malloc(). If you want to use the standard C library malloc() instead, define MEM_LIBC_MALLOC to 1 in your lwipopts.h To let mem_malloc() use pools (prevents fragmentation and is much faster than a heap but might waste some memory), define MEM_USE_POOLS to 1, define MEMP_USE_CUSTOM_POOLS to 1 and create a file "lwippools.h" that includes a list of pools like this (more pools can be added between _START and _END): Define three pools with sizes 256, 512, and 1512 bytes LWIP_MALLOC_MEMPOOL_START LWIP_MALLOC_MEMPOOL(20, 256) LWIP_MALLOC_MEMPOOL(10, 512) LWIP_MALLOC_MEMPOOL(5, 1512) LWIP_MALLOC_MEMPOOL_END / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This file is part of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se> Simon Goldschmidt /

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@file Dynamic pool memory manager lwIP has dedicated pools for many structures (netconn, protocol control blocks, packet buffers, ...). All these pools are managed here. @defgroup mempool Memory pools @ingroup infrastructure Custom memory pools / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This file is part of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se> /

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/memp.c

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Files:
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@file Packet buffer management / @defgroup pbuf Packet buffers (PBUF) @ingroup infrastructure Packets are built from the pbuf data structure. It supports dynamic memory allocation for packet contents or can reference externally managed packet contents both in RAM and ROM. Quick allocation for incoming packets is provided through pools with fixed sized pbufs. A packet may span over multiple pbufs, chained as a singly linked list. This is called a "pbuf chain". Multiple packets may be queued, also using this singly linked list. This is called a "packet queue". So, a packet queue consists of one or more pbuf chains, each of which consist of one or more pbufs. CURRENTLY, PACKET QUEUES ARE NOT SUPPORTED!!! Use helper structs to queue multiple packets. The differences between a pbuf chain and a packet queue are very precise but subtle. The last pbuf of a packet has a ->tot_len field that equals the ->len field. It can be found by traversing the list. If the last pbuf of a packet has a ->next field other than NULL, more packets are on the queue. Therefore, looping through a pbuf of a single packet, has an loop end condition (tot_len p->len), NOT (next NULL). Example of custom pbuf usage for zero-copy RX: @code{.c} typedef struct
my_custom_pbuf { struct pbuf_custom p; void dma_descriptor; } my_custom_pbuf_t;
LWIP_MEMPOOL_DECLARE(RX_POOL, 10, sizeof(my_custom_pbuf_t), "Zero-copy RX PBUF pool"); void my_pbuf_free_custom(void p) { my_custom_pbuf_t my_puf
(my_custom_pbuf_t) p; LOCK_INTERRUPTS();
free_rx_dma_descriptor(my_pbuf->dma_descriptor); LWIP_MEMPOOL_FREE(RX_POOL, my_pbuf); UNLOCK_INTERRUPTS(); } void eth_rx_irq() { dma_descriptor dma_desc
get_RX_DMA_descriptor_from_ethernet(); my_custom_pbuf_t my_pbuf
(my_custom_pbuf_t) LWIP_MEMPOOL_ALLOC(RX_POOL); my_pbuf->p.custom_free_function
my_pbuf_free_custom; my_pbuf->dma_descriptor dma_desc;
invalidate_cpu_cache(dma_desc->rx_data, dma_desc->rx_length); struct pbuf p
pbuf_alloced_custom(PBUF_RAW, dma_desc->rx_length, PBUF_REF, &my_pbuf->p,
dma_desc->rx_data, dma_desc->max_buffer_size); if(netif->input(p, netif) !=
ERR_OK) { pbuf_free(p); } } @endcode / Copyright (c) 2001-2004 Swedish Institute
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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/pbuf.c

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@file Implementation of raw protocol PCBs for low-level handling of different
types of protocols besides (or overriding) those already available in lwIP
See also @ref raw_raw @defgroup raw_raw RAW @ingroup callbackstyle_api
Implementation of raw protocol PCBs for low-level handling of different types of
protocols besides (or overriding) those already available in lwIP.

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This file is part of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se> /

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/raw.c

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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/sys.c

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@file Transmission Control Protocol for IP See also @ref tcp_raw @defgroup tcp_raw TCP @ingroup callbackstyle_api Transmission Control Protocol for IP @see @ref raw_api and @ref netconn Common functions for the TCP implementation, such as functions for manipulating the data structures and the TCP timer functions. TCP functions related to input and output is found in tcp_in.c and tcp_out.c respectively.

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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/tcp.c

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@file User Datagram Protocol module
The code for the User Datagram Protocol UDP & UDPLite (RFC 3828). See also @ref udp_raw @defgroup udp_raw UDP @ingroup callbackstyle_api User Datagram Protocol module @see @ref raw_api and @ref netconn / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This file is part of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se> / @todo Check the use of `(struct udp_pcb).chksum_len_rx'! /

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/udp.c

--------------------------------------------------------------------------------
@file AutoIP Automatic LinkLocal IP Configuration
This is a AutoIP implementation for the lwIP TCP/IP stack. It aims to conform with RFC 3927.

defgroup autoip AUTOIP
@ingroup ip4
AUTOIP related functions

USAGE: define @ref LWIP_AUTOIP 1 in your lwipopts.h

Options: AUTOIP_TMR_INTERVAL msecs, I recommend a value of 100. The value must divide 1000 with a remainder almost 0. Possible values are 1000, 500, 333, 250, 200, 166, 125, 111, 100 .... Without DHCP:
- Call autoip_start() after netif_add(). With DHCP:
- define @ref LWIP_DHCP_AUTOIP_COOP 1 in your lwipopts.h.
- Configure your DHCP Client. @see netifapi_autoip

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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv4/autoip.c

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@file Dynamic Host Configuration Protocol client @defgroup dhcp4 DHCPv4 @ingroup
ip4 DHCP (IPv4) related functions This is a DHCP client for the lwIP TCP/IP
stack. It aims to conform with RFC 2131 and RFC 2132. @todo: - Support for
interfaces other than Ethernet (SLIP, PPP, ...) Options: @ref

DHCP_COARSE_TIMER_SECS (recommended 60 which is a minute) @ref
DHCP_FINE_TIMER_MSECS (recommended 500 which equals TCP coarse timer)
dhcp_start() starts a DHCP client instance which configures the interface by
obtaining an IP address lease and maintaining it. Use dhcp_release() to end the
lease and use dhcp_stop() to remove the DHCP client. @see netifapi_dhcp4 /

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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv4/dhcp.c
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@file IGMP - Internet Group Management Protocol @defgroup igmp IGMP @ingroup ip4
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code. Note 1) Although the rfc requires V1 AND V2 capability we will only
support v2 since now V1 is very old (August 1989) V1 can be added if required a
debug print and statistic have been implemented to show this up. Note 2) A query
for a specific group address (as opposed to ALLHOSTS) has now been implemented
as I am unsure if it is required a debug print and statistic have been
implemented to show this up. Note 3) The router alert rfc 2113 is implemented in
outgoing packets but not checked rigorously incoming Steve Reynolds RFC 988 -
Host extensions for IP multicasting - V0 RFC 1054 - Host extensions for IP
multicasting RFC 1112 - Host extensions for IP multicasting - V1 RFC 2236 -
Internet Group Management Protocol, Version 2 - V2 <- this code is based on this
RFC (it's the "de facto" standard) RFC 3376 - Internet Group Management
Version 3... - V3+ RFC 2113 - IP Router Alert Option

----------------------------------------------------------------------------/
Includes

----------------------------------------------------------------------------/
FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv4/igmp.c

----------------------------------------------------------------------------/
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@file Ethernet output for IPv6. Uses ND tables for link-layer addressing. /
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FILES:
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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/include/lwip/ip6.h

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<delamer@inicotech.com> Functions for handling IPv6 addresses. Please coordinate changes and requests with Ivan Delamer <delamer@inicotech.com> /

FILES:
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@file Multicast listener discovery @defgroup mld6 MLD6 @ingroup ip6 Multicast listener discovery for IPv6. Aims to be compliant with RFC 2710. No support for MLDv2. To be called from TCPIP thread / Copyright (c) 2010 Inico Technologies Ltd. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2.
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 1) For NO_SYS0, an RX thread can be used which blocks on sio_read() until data is received.
 2) In your main loop, call slipif_poll() to check for new RX bytes, completed packets are fed into netif->input().
 3) Call slipif_released_byte[s]() from your serial RX ISR and slipif_process_rxqueue() from your main loop.

ISR level
decodes packets and puts completed packets on a queue which is fed into the stack from the main loop (needs SYS_LIGHTWEIGHT_PROT for pbuf_alloc to work on ISR level!).

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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/netif/mbp/polarssl/md4.c

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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/netif/ppp/polarssl/sha1.c
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OpenAMP stack. DESCRIPTION /

FILES:
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/common/firmware.c
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Stack. DESCRIPTION This file is implementation of generic part of HIL. /

FILES:
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FILE NAME sh_mem.c COMPONENT OpenAMP stack. DESCRIPTION Source file for fixed buffer size memory management service. Currently it is only being used to manage shared memory. /

FILES:
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/common/sh_mem.c

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embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/include/openamp/remoteproc/remoteproc.c

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COMPONENT: OpenAMP stack. DESCRIPTION: This file provides definitions for remoteproc loader.

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FILE NAME: sh_mem.c

COMPONENT: IPC Stack for uAMP systems.

DESCRIPTION: Header file for fixed buffer size memory management service. Currently it is being used to manage shared memory.

FILES:
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/include/openamp/sh_mem.h

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DESCRIPTION This file is the Implementation of IPC hardware layer interface for
Xilinx Zynq UltraScale+ MPSoC system. /

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embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/remoteproc/drivers/linux_remoteproc.c
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/remoteproc/drivers/zynqmp_remoteproc_r5.c

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OpenAMP Stack DESCRIPTION

This file provides services to manage the remote devices. It also implements the interface defined by the virtio and provides few other utility functions.

FILES:

embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/rpmsg/remote_device.c

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FILE NAME: rpmsg.c

COMPONENT: OpenAMP stack

DESCRIPTION:

Main file for the RPMSG driver. This file implements APIs as defined by RPMSG documentation (Linux docs) and also provides some utility functions. RPMSG driver represents each processor/core to which it communicates with remote_device control block. Each remote_device(processor) defines its role in the communication i.e whether it is RPMSG Master or Remote. If the device(processor) to which driver is talking is RPMSG master then RPMSG driver implicitly behaves as Remote and vice versa. RPMSG Master is responsible for initiating communications with the Remote and shared buffers management. Terms remote_device/core/proc are used interchangeably for the processor to which RPMSG driver is communicating irrespective of the fact whether it is RPMSG Remote or Master.
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FILES:
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/virtio/virtio.c
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/virtio/virtqueue.c

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FILES:
embeddedsw/XilinxProcessorIPLib/drivers/dprxss/examples/src/dats_dp14/ti_lmk03318.c
embeddedsw/XilinxProcessorIPLib/drivers/dptxss/examples/src/dats_dp14/ti_lmk03318.c

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FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_cp9.h
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THIS COPYRIGHT NOTICE AND DISCLAIMER MUST BE RETAINED AS PART OF THIS FILE AT
ALL TIMES. @file xusb_dma_intr_storage.c This file has the USB example Mass
storage device application function with SCSI command processing and related
response preparation being implemented as a part of the interrupt handler. @note
The example is tested on MicroBlaze system on SP605 board, with caches included
in the H/W design. <pre> MODIFICATION HISTORY: Ver Who Date Changes ----- ----
1.00a hvm 2/22/07 First release. 4.00a hvm 06/01/11 Signature parameter of
Command Status word is initialized with 'U''S''B''S' in ProcessRxCmd function.
CR611761 fix. 4.01a bss 11/01/11 Modified UsbIfIntrHandler function to
unconditionally reset when USB reset is asserted (CR 627574). 4.03a bss 02/05/13
Updated the example to support Zynq </pre> / Include Files /
FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_dma_intr_storage.c
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Updated the code in gpio isr to increment the index by 4 as a dummy byte is added in the Message variable in keyboard.h file to handle the address alignment issue. 4.02a bss 11/01/11 Modified UsbIfIntrHandler function to unconditionally reset when USB reset is asserted (CR 627574).

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_keyboard.c

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handle the address alignment issue. 4.02a bss 11/01/11 Number of endpoints changed from 0x00 to 0x01 in FsUsbConfig to support Full Speed (CR 627573).

<pre>FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_keyboard.h
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is used to complete the test. The push buttons on the ML507 board for cursor movement are SW10, SW11, SW12 and SW13. The push button for completing the test is SW14. - The GPIO device has to be added to the hardware design so that the push buttons on the evaluation board could be used. If we enable the debug statements in the xusb_cp9.c file, we must add the UARTLite core to the hardware design. Debug messages can be enabled by defining the constant XUSB_DEBUG. - To run this example, the evaluation board is to be connected to a Windows Host PC over the USB port. - The example configures the USB device for endpoint 0 and endpoint 1. Endpoint 0 is the control endpoint and is configured for a maximum packet length of 64 bytes. Endpoint 1 is configured for INTERRUPT IN transactions and the maximum packet size is configured as 16 bytes. - The USB mouse example code has to be compiled along with the xusb_cp9.c file. The xusb_cp9.c file contains all the USB enumeration related functions. To compile the code for USB mouse example, the constant definitions HID_DEVICES and USB_MOUSE are to be defined and the definitions the constants USB_KEYBOARD and MASS_STORAGE_DEVICE are to be undefined. These definitions can be found in the xusb_types.h file.

PRE MODIFICATION HISTORY: Ver Who Date Changes
1.00a hvm 6/21/07 First release
3.00a hvm 11/18/09 Updated to use HAL processor APIs. XUsb_mReadReg is renamed to XUsb_ReadReg and XUsb_mWriteReg is renamed to XUsb_WriteReg. 4.02a bss 11/01/11 Modified UsbIfIntrHandler function to unconditionally reset when USB reset is asserted (CR 627574).

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_mouse.c

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ALL TIMES. @file xusb_mouse.h This file contains the constants, type
definitions, variables and function prototypes used in the mouse application.

FILE: embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_mouse.h

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This copyright notice and disclaimer must be retained as part of this file at all times. @file xusb_storage.c This file contains Mass storage device application related functions. @note The example is tested on MicroBlaze, PPC405 and 440 systems with caches included in the H/W design and also with systems not having caches. <pre> MODIFICATION HISTORY: Ver Who Date Changes ----- ---- 1.00a hvm 2/22/07 First release 1.01a hvm 5/30/07 Added code to handle endpoint zero class specific commands. Added support for PPC. 1.01a hvm 10/2/08 The complete SCSI READ command processing implementation is modified. The send processing is shifted into the endpoint one interrupt handler. Updated the code to enable caches. 2.00a hvm 12/08/08 Updated the example with cache APIs 2.00a hvm 03/12/09 Updated the example with DMA Done check for every transaction initiated. 3.00a hvm 11/18/09 Updated to use HAL processor APIs. XUsb_mReadReg is renamed to XUsb_ReadReg and XUsb_mWriteReg is renamed to XUsb_WriteReg. 3.02a hvm 08/16/10 Updated with the little endian support changes. 4.00a hvm 06/01/11 Signature parameter of Command Status word is initialized with 'U'S''B'S' in ProcessRxCmd function. CR611761 fix. 4.00a hvm 24/06/11 The cache flush call with 512 size in EP1 handler is moved inside the HIGHSPEED condition. CR614791 4.02a bss 11/01/11 Modified UsbIfIntrHandler function to unconditionally reset when USB reset is asserted (CR 627574). 5.2 MNK 03/30/2016 Modified the example to support ZYNQMP. </pre> / Include Files /

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_storage.c
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ALL TIMES. @file xusb_storage.h This file contains the constants, type
definitions, variables and function prototypes used in the mass storage
application. @note None. <pre>
MODIFICATION HISTORY: Ver Who Date Changes ----
1.00a hvm 2/12/07 First release
1.01a hvm 10/2/08 The variables IntLba in
Lba and IntBlockCount in BlockCount are declared as volatile.
2.00a hvm 03/12/09
Modified the RAMDISKSECTORS constant value from 0x4000 to 0x400 as this would
reduce the code size and the example can run in a smaller memory systems.
3.02a hvm 08/16/10 Updated with the little endian support changes.
4.00a hvm 10/25/10
Updated with DmaIntrHandler function prototype. Updated INQUIRY command with pad
values. 4.00a hvm 06/01/11 Modified the USB Mass Storage Command Status Wrapper
structure. The union for Signature is removed and only the array definition of
Signature is retained. CR611761 fix.
4.00a hvm 06/24/11 Updated the INQUIRY command fourth parameter value to 0.
CR614794 4.01a hvm 08/11/11 Updated the
RamDisk variable to have a 32 bit address alignment.
4.01a hvm 09/14/11 Fixed
the compilation issue at the RamDisk variable declaration. CR625055.
</pre> /

FILES:
embeddedsw/XilinxProcessorILib/drivers/usb/examples/xusb_storage.h
--------------------------------------------------------------------------------

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This file contains the constants, type definitions, variables as used in the USB chapter 9 and mass storage demo application. 

MODIFICATION HISTORY:  
Ver Who Date Changes  
--- 1.00a hvm 2/22/07 First release  
4.00a hvm 12/20/10 Updated with the Audio device definitions. 

FILES: 
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_types.h 

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ALL TIMES. @file xusb.c @addtogroup usb_v5_2 @{ The XUsb driver. Functions in
this file are the minimum required functions for this driver. See xusb.h for a
detailed description of the driver. @note None. <pre> MODIFICATION HISTORY: Ver
Who Date Changes ----- ---- 1.00a hvm 2/22/07 First release 2.00a hvm 10/22/08
Added DMA APIs. 3.00a hvm 12/3/09 Added XUsb_ReadErrorCounters API to return USB
error counters data. Updated to use HAL processor APIs. XUsb_mReadReg is renamed
to XUsb_ReadReg and XUsb_mWriteReg is renamed to XUsb_WriteReg. 3.02a hvm
7/15/10 Added Device ID initialization in XUsb_CfgInitialize function
(CR555996). 4.00a hvm 10/21/10 Added ULPI PHY Read/Write APIs. Added DMA handler
initialization in XUsb_CfgInitialize function 4.03a bss 06/20/10 Added SIE Reset
API (XUsb_SieReset) to reset the SIE state machine (CR 660602) 5.1 sk 11/10/15
Used UINTPTR instead of u32 for Baseaddress CR 867425. Changed the prototype of
XUsb_CfgInitialize API. 5.2 MNK 29/03/15 Added 64bit changes for ZYNQMP. </pre>
/ Include Files /

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/src/xusb.c
--------------------------------------------------------------------------------
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The XUsb component is the driver for the USB device controller. It supports the following features:

- **USB 2.0 Specification supporting High/Full/Low Speed**
- **8 Endpoints**
- **1 Control Endpoint**
- **7 Configurable Endpoints**, which can be configured as IN or OUT, and configurable as Interrupt or Bulk or Isochronous
- **2 Ping Pong Buffers** for all the endpoints except the Control Endpoint

### Initialization & Configuration

The device driver enables higher layer software (e.g., an application) to communicate to the USB device. Apart from transmission and reception of USB frames, the driver also handles the configuration of the device. A single device driver can support multiple USB devices.

The `XUsb_CfgInitialize()` API is used to initialize the USB device. The user needs to first call the `XUsb_LookupConfig()` API, which returns the Configuration structure pointer which is passed as a parameter to the `XUsb_CfgInitialize()` API.

### Configuration of the DEVICE endpoints

After configuration is complete, the endpoints need to be initialized using the `XUsb_EpInitializeAll()` function call. As the H/W doesn't provide any provision for the driver to configure the PHY, the driver doesn't provide any mechanism for directly programming the PHY.
simple DMA for data transfer between endpoint buffer memory and the external memory. The driver has two APIs for DMA operation. one API is used for resetting the DMA module of the USB device. The other API is for initiating the DMA transfer. The DMA transfer API is internal to the driver and is used by the USB endpoint data send and data receive functions. Upon completion of DMA transfer the USB device sets the buffer ready bit of the endpoint for which the DMA transfer is initiated. Setting of the buffer ready bit enables transmission/reception of an endpoint data. To enable the USB device to know to which endpoint the current DMA transfer is initiated, the driver writes the buffer ready mask to the DMA control register. The DMA in the device can be enabled or disabled only during the system build time. <b> Interrupts </b> The driver provides an interrupt handler XUsb_IntrHandler for handling the interrupt from the USB device. The users of this driver have to register this handler with the interrupt system and provide the callback functions. The interrupt handlers and associated callback functions for the USB device have to be registered by the user using the XUsb_IntrSetHandler() function and/or XUsb_EpSetHandler() function. XUsb_IntrSetHandler() function installs an asynchronous callback function for the general interrupts (interrupts other than the endpoint interrupts). XUsb_EpSetHandler() function installs the callback functions for the interrupts related to the endpoint events. A separate callback function has to be installed for each of the endpoints. <b> Virtual Memory </b> This driver supports Virtual Memory. The RTOS is responsible for calculating the correct device base address in Virtual Memory space. <b> Threads </b> This driver is not thread safe. Any needs for threads or thread mutual exclusion must be satisfied by the layer above this driver. <b> Asserts </b> Asserts are used within all Xilinx drivers to enforce constraints on argument values. Asserts can be turned off on a system-wide basis by defining, at compile time, the NDEBUG identifier. By default, asserts are turned on and it is recommended that users leave asserts on during development. <b> Building the driver </b> The XUsb driver is composed of several source files. This allows the user to build and link only those parts of the driver that are necessary. <pre> MODIFICATION HISTORY: Ver Who Date Changes ----- ---- -------- 1.00a hvm 02/22/07 First release. 1.01a hvm 05/30/07 The chapter 9 files are moved to examples directory. 1.01a sdm 08/22/08 Removed support for static interrupt handlers from the MDD file 1.01a hvm 10/02/08 The Buffer0Ready, Buffer1Ready are declared as volatile. In function XUsb_EpDataRecv, the initialization of Buffer0Ready, Buffer1Ready and CurBufNum variables is moved before the buffer ready bit is set in the buffer ready register. Added the initialization of Buffer0Ready, Buffer1Ready and CurBufNum variables in the XUsb_EpDataSend function. 2.00a hvm 10/22/08 Added Support for the new XPS USB device. The new device has support for DMA. Apart from the DMA, remote wakeup feature is also added the USB device. However, there is no additional code needed to be added in the driver to support this feature. 3.00a hvm 12/03/09 Added the modifications related to the new USB error reporting register in the XPS USB device. Updated to use HAL processor APIs. Removed _m from the name of the macros. XUsb_mReadReg is renamed to XUsb_ReadReg and XUsb_mWriteReg is renamed to XUsb_WriteReg. 3.01a hvm 5/20/10 Updated with fix for CR561171. The interrupt handler is updated to call the error handler callback function during error interrupts. 3.02a hvm 7/15/10 Added Device ID
initialization in XUsb_CfgInitialize function (CR555996). 3.02a hvm 8/5/10
Updated the XUsb_EpDataRecv function to ensure that the buffer ready bit setup
is now made only during non-DMA case. CR570776. 3.02a hvm 8/16/10 Updated the
examples with the little endian support. 4.00a hvm 10/21/10 Added new API
XUsb_DmaIntrSetHandler for setting up DMA handler. Updated the XUsb_IntrHandler
function to call the DMA handler to handle DMA events. Removed DmaDone and
DmaError variables from the XUsb structure. Added two new APIs to provide access
to the new ULPI PHY register. 4.01a hvm 8/23/11 Added new bit definitions for
isochronous transfer bits in endpoint configuration register. Added a new API
for setting these bits for a given endpoint. These bits are available only in
the newer versions of the AXI USB IP. Check the IP datasheet for more details.
4.02a bss 3/04/12 Modified XCOMPONENT_IS_READY to XIL_COMPONENT_IS_READY CR
650877 4.03a bss 06/20/10 Added SIE Reset API to reset (XUsb_SieReset) the SIE
state machine in xusb.c and SIE Reset Mask in xusb_l.h for CR 660602 4.04a bss
10/22/13 Added macros for HSIC PHY registers in xusb_l.h. 5.0 adk 19/12/13
Updated as per the New Tcl API's 5.1 sk 11/10/15 Used UINTPTR instead of u32 for
Baseaddress CR 867425. Changed the prototype of XUsb_CfgInitialize API. 5.2 MNK
29/03/15 Added 64bit changes for ZYNQMP. ms 03/17/17 Modified text file in
examples folder for doxygen generation. </pre> /

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/src/xusb.h
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ALL TIMES. @file xusb_endpoint.c @addtogroup usb_v5_2 @{
This file contains the USB end point related function definitions. @note None. <pre>
MODIFICATION HISTORY: Ver Who Date Changes ----- ---- 1.00a hvm 2/22/07 First release 1.01a
hvm 10/2/08 In function XUsb_EpDataRecv, the initialization of Buffer0Ready,
Buffer1Ready and CurBufNum variables is moved before the buffer ready bit is set
in the buffer ready register. Added the initialization of Buffer0Ready,
Buffer1Ready and CurBufNum variables in the XUsb_EpDataSend function. 2.00a hvm
12/2/08 Updated the XUsb_EpDataSend and XUsb_EpRecv functions to provide support
for DMA and non DMA modes of data transfer. 3.00a hvm 11/18/09 Updated to use
HAL processor APIs. Removed _m from the name of the macros. 3.02a hvm 8/5/10
Updated the XUsb_EpDataRecv function to ensure that the buffer ready bit setup
is now made only during non-DMA case. CR570776. 4.01a hvm 8/23/11 Added an API
to set the number of isochronous transfers in a microframe for a given endpoint.
</pre> / Include Files /

FILES:
embeddedsw/XilinxProcessorILib/drivers/usb/src/xusb_endpoint.c

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@file xusb_g.c @addtogroup usb_v5_2 @{
This file contains a configuration table that specifies the configuration of the USB devices in the system.

@note None.

<pre>
MODIFICATION HISTORY:
Ver Who Date Changes ------ ----
-------- --------
1.00a hvm 2/22/07 First release
2.00a hvm 12/2/08 Updated the configuration structure with the INCLUDE_DMA option.
</pre>

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/src/xusb_g.c

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This file contains the functions that are related to interrupt processing for the USB device. <pre>

MODIFICATION HISTORY:

Ver Who Date Changes ----- ----
1.00a hvm 2/22/07 First release.
2.00a hvm 12/2/08 Updated the interrupt handler for handling the new DMA bits defined in the interrupt status register.
3.00a hvm 12/3/09 Updated to use HAL processor APIs. Removed _m from the Added the interrupt handling for the error interrupts. Added new API XUsb_ErrIntrSetHandler for setting up error handler.
3.01a hvm 5/20/10 Updated with fix for CR561171. The interrupt handler is updated to call the error handler callback function during error interrupts.
4.00a hvm 9/01/10 Added new API XUsb_DmaIntrSetHandler for setting up DMA handler. Updated the XUsb_IntrHandler function to call the DMA handler to handle DMA events. Removed the DmaDone and DmaError variable usage from the XUsb_IntrHandler function. Added interrupt handling for ULPI PHY interrupts.
4.02a bss 3/04/12 Modified XCOMPONENT_IS_READY to XIL_COMPONENT_IS_READY CR 650877 </pre> / Include Files /

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/src/xusb_intr.c
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This header file contains identifiers and low-level driver function prototypes (or macros) that can be used to access the USB device. High-level driver function prototypes are defined in xusb.h.  

PRE MODIFICATION HISTORY: Ver Who Date Changes ----- ---- --------
1.00a hvm 2/22/07 First release 2.00a hvm 12/2/08 Updated the register offset values as per the new USB device datasheet. Added new bitmasks related to DMA operation as defined in the datasheet. 3.00a hvm 10/28/09 Updated the new USB error register related constants 3.00a hvm 11/18/09 Updated to use HAL processor APIs. XUsb_mReadReg is renamed to XUsb_ReadReg and XUsb_mWriteReg is renamed to XUsb_WriteReg. Updated the new USB error register related constants. 4.00a hvm 10/21/10 Updated the ULPI PHY and interrupt register related constants. 4.01a hvm 08/23/11 Updated with High bandwidth Isochronous bit definitions 4.03a bss 06/20/10 Added SIE Reset Mask (CR 660602) 4.04a bss 10/22/13 Added macros for HSIC PHY registers. </pre>

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/src/xusb_l.h
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FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/src/xusb_sinit.c

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FILES:
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embeddedsw/XilinxProcessorIPLib/drivers/i2stx/data/i2stx.tcl
embeddedsw/XilinxProcessorIPLib/drivers/sdiaud/data/sdiaud.tcl
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FILES:
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embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/examples/hdcp_key_utility/aes256.c

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Filename: sha256.c Author: Brad Conte (brad AT bradconte.com) Copyright: Disclaimer: This code is presented "as is" without any guarantees. Details: Implementation of the SHA-256 hashing algorithm. SHA-256 is one of the three algorithms in the SHA2 specification. The others, SHA-384 and SHA-512, are not offered in this implementation. Algorithm specification can be found here: http://csrc.nist.gov/publications/fips/fips180-2/fips180-2withchangenotice.pdf This implementation uses little endian byte order. HEADER FILES /

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdm_example/sha256.c embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/examples/xhdm_example/sha256.c

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Disclaimer: This code is presented "as is" without any guarantees. Details:
Defines the API for the corresponding SHA1 implementation.

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmi_example/sha256.h
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmixss/examples/xhdmi_example/sha256.h

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FILES:
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmi_example/idt_8t49n24x.c
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmixss/examples/xhdmi_example/idt_8t49n24x.c

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/ @file xvidc_parse_edid.c <pre> MODIFICATION HISTORY: Ver Who Date Changes ----- ---
---------- 1.00 mmo 24-01-2017 Included into video_common 1.01 eb 13-04-2018
Fixed XV_VidC_parse_edid API and xvidc_edid_extension_handler struct to enhance system stability </pre> /

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/video_common/src/xvidc_parse_edid.c

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embeddedsw/lib/sw_apps/zyq_fsb/misc/xc702/bspconfig.h
embeddedsw/lib/sw_apps/zyq_fsb/misc/xc706/bspconfig.h
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embeddedsw/lib/sw_apps/zyqmqtt_fsb/misc/xcu102/bspconfig32.h
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mainpage SD-FEC standalone driver software API summary

section

sec_init Initialization and Configuration

The XSDFec_Config structure is used by
the driver to configure the FEC mode and interface parameters defined for each
SD-FEC device. The configuration structure is created by the tool-chain based on
HW build properties. To support multiple runtime loading and initialization
strategies employed by various operating systems, the driver instance can be
initialized in one of two ways:
- XSDFecInitialize(InstancePtr, DeviceId) - The
driver looks up its own configuration structure created by the tool-chain based
on an ID provided by the tool-chain.
- XSDFecCfgInitialize(InstancePtr, CfgPtr)
  - Uses a configuration structure provided by the caller.

section sec_data Data

Structures

One or more device specific headers are produced during the
generation of the board support package, defining further device specific
configuration parameters:
- When the device is configured for Turbo Decode, the
  header x<inst_name>_turbo_params.h, contains an XSDFecturbo_parameters
  structure which is populated to match the corresponding IP GUI configuration.
- When the device is configured for LDPC a header is generated per LDPC code
  specified on the corresponding IP GUI; x<inst_name>_code_id_params.h. Each
  header defines an XSDFecldpc_parameters structure populated with the
  configuration data required for the corresponding LDPC code.

section sec_api

API

The driver provides the following functions:
- XSDFecSetTurboParams(InstancePtr, ParamsPtr) - Set Turbo parameters on a device
- XSDFecAdd_Ldpc_params(InstancePtr, CodeId, SCOffset, LACoef, QCOffset,
  ParamsPtr) - Add LDPC parameters to a device
- XSDFecShareTableSize(ParamsPtr, SCSzrePtr, LASSzrePtr, QCSSzrePtr) - Calculate share table size for a LDPC code
- XSDFecInterruptClassifier(InstancePtr) - Classify interrupts

In addition, the

driver provides set and get functions for all the individual registers defined
for the SD-FEC.

section sec_ex Example

The processor based example design

output by the SD-FEC IP instance also includes an example application
demonstrating a basic use case of the software driver.

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edgedrsw/XilinxProcessorILib/drivers/sd_fec/src/xsdfec_hw.h

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embeddedsw/lib/bsp/standalone/src/arm/cortexa53/64bit/xpvxenconsole/xen_events.c

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Grzegorz Milos Changes: Date: Mar 2006 Environment: Xen Minimal OS Description:
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files:
embeddedsw/lib/sw_apps/ddr_self_refresh/src/main.c

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FILES:
embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/freertos/zynqmp_r5/zynqmp_amp_demo/ipi_latency_demod.c
embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/generic/zynqmp_r5/zynqmp_amp_demo/ipi_latency_demod.c
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/ ipi_shmem_demo.c - shared memory with IPI demo This demo will: 1. Get the shared memory device I/O region. 2. Get the IPI device I/O region. 3. Register IPI interrupt handler. 4. Wait for remote IPI notification to receive message. 5. When message is received, check if it is shutdown message. 6. If it is shutdown message, do cleanup, otherwise, echo it back to the shared buffer. 7. Kick IPI to notify there is a message written to the shared memory if it echos back the message. 8. Repeat 4. 9. Clean up: disable IPI interrupt, deregister the IPI interrupt handler. Here is the Shared memory structure of this demo: [0x0 - 0x03] number of APU to RPU buffers available to RPU | [0x04 - 0x07] number of APU to RPU buffers consumed by RPU | [0x08 - 0x1FFC] address array for shared buffers from APU to RPU | [0x2000 - 0x2003] number of RPU to APU buffers available to APU | [0x2004 - 0x2007] number of RPU to APU buffers consumed by APU | [0x2008 - 0x3FFC] address array for shared buffers from RPU to APU | [0x104000 - 0x103FFC] APU to RPU buffers | [0x104000 - 0x203FFC] RPU to APU buffers | /

FILES:
embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/freertos/zynqmp_r5/zynqmp_amp_demo/ipi_shmem_demo.c
embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/generic/zynqmp_r5/zynqmp_amp_demo/ipi_shmem_demo.c
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FILES:
embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/freertos/zynqmp_r5/zynqmp_amp_demo/shmem_latency_demod.c
embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/generic/zynqmp_r5/zynqmp_amp_demo/shmem_latency_demod.c
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/ shmem_throughput_demo_task.c
This is the remote side of the shared memory throughput demo. This demo does the following steps:
1. Get the shared memory device libmetal I/O region.
2. Get TTC timer device libemtal I/O region.
3. Register IPI interrupt vector.
4. Download throughput measurement: Start TTC RPU counter, wait for IPI kick, check if data is available, if yes, read as much data as possible from shared memory. It will iterate until 1000 packages have been received, stop TTC RPU counter and kick IPI to notify the remote. Repeat for different package size.
5. Upload throughput measurement: Start TTC RPU counter, write data to shared memory and kick IPI to notify remote. It will iterate for 1000 times, stop TTC RPU counter, wait for APU IPI kick to know APU has finished receiving packages. Kick IPI to notify it TTC RPU counter value is ready to read. Repeat for different package size.
6. Cleanup resource: disable IPI interrupt and deregister the IPI interrupt handler.

Here is the Shared memory structure of this demo:

| 0x0 - 0x03 | number of APU to RPU buffers available to RPU |
| 0x04 - 0x1FFFFF | address array for shared buffers from APU to RPU |
| 0x200000 - 0x200004 | number of RPU to APU buffers available to APU |
| 0x200004 - 0x3FFFFF | address array for shared buffers from RPU to APU |
| 0x400000 - 0x7FFFFF | APU to RPU buffers |
| 0x800000 - 0xAFFFFF | RPU to APU buffers |

FILES:

embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/freertos/zynqmp_r5/zynqmp_amp_demo/shmem_througput_demod.c
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FILES:
embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/generic/zynqmp_r5/zynqmp_amp_demo/shmem_throughput_demod.c
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DESCRIPTION This file define platform specific data and implements APIs to set platform specific information for OpenAMP. /

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embeddedsw/lib/sw_apps/openamp_matrix_multiply/src/machine/zynq7/platform_info.c
embeddedsw/lib/sw_apps/openamp_matrix_multiply/src/machine/zynqmp_r5/platform_info.c
embeddedsw/lib/sw_apps/openamp_rpc_demo/src/machine/zynq7/platform_info.c
embeddedsw/lib/sw_apps/openamp_rpc_demo/src/machine/zynqmp_r5/platform_info.c

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FILES:
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embeddedsw/lib/sw_apps/openamp_echo_test/src/machine/zynq7/rsc_table.h
embeddedsw/lib/sw_apps/openamp_echo_test/src/machine/zynqmp_r5/rsc_table.c
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application that showcases usage of rpmsg. This application is meant to run on the remote CPU running FreeRTOS code. It echoes back data that was sent to it by the master core. The application calls init_system which defines a shared memory region in MPU settings for the communication between master and remote using zynqMP_r5_map_mem_region API. It also initializes interrupt controller GIC and register the interrupt service routine for IPI using zynqMP_r5_gic_initialize API. Echo test calls the remoteproc_resource_init API to create the virtio/RPMsg devices required for IPC with the master context. Invocation of this API causes remoteproc on the FreeRTOS to use the rpmsg name service announcement feature to advertise the rpmsg channels served by the application. The master receives the advertisement messages and performs the following tasks: 1. Invokes the channel created callback registered by the master application. 2. Responds to remote context with a name service acknowledgement message. After the acknowledgement is received from master, remoteproc on the FreeRTOS invokes the RPMsg channel-created callback registered by the remote application. The RPMsg channel is established at this point. All RPMsg APIs can be used subsequently on both sides for run time communications between the master and remote software contexts.

Upon running the master application to send data to remote core, master will generate the payload and send to remote (FreeRTOS) by informing the FreeRTOS with an IPI, the remote will send the data back by master and master will perform a check whether the same data is received. Once the application is ran and task by the FreeRTOS application is done, master needs to properly shut down the remote processor. To shut down the remote processor, the following steps are performed: 1. The master application sends an application-specific shut-down message to the remote context. 2. This FreeRTOS application cleans up application resources, sends a shut-down acknowledge to master, and invokes remoteproc_resource_deinit API to de-initialize remoteproc on the FreeRTOS side. 3. On receiving the shut-down acknowledge message, the master application invokes the remoteproc_shutdown API to shut down the remote processor and de-initialize remoteproc using remoteproc_deinit on its side.

FILES:
embeddedsw/lib/sw_apps/openamp_echo_test/src/system/freertos/echo_test.c
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OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / This is a sample demonstration
application that showcases usage of rpmsg This application is meant to run on
the remote CPU running bare-metal code. It echoes back data that was sent to it
by the master core. The application calls init_system which defines a shared
memory region in MPU settings for the communication between master and remote
using zynqMP_r5_map_mem_region API, it also initializes interrupt controller GIC
and register the interrupt service routine for IPI using
zynqMP_r5_gic_initialize API. Echo test calls the remoteproc_resource_init API
to create the virtio/RPMsg devices required for IPC with the master context.
Invocation of this API causes remoteproc on the bare-metal to use the rpmsg name
service announcement feature to advertise the rpmsg channels served by the
application. The master receives the advertisement messages and performs the
following tasks: 1. Invokes the channel created callback registered by the
master application 2. Responds to remote context with a name service
acknowledgement message After the acknowledgement is received from master,
remoteproc on the bare-metal invokes the RPMsg channel-created callback
registered by the remote application. The RPMsg channel is established at this
point. All RPMsg APIs can be used subsequently on both sides for run time
communications between the master and remote software contexts. Upon running the
master application to send data to remote core, master will generate the payload
and send to remote (bare-metal) by informing the bare-metal with an IPI, the
remote will send the data back by master and master will perform a check whether
the same data is received. Once the application is ran and task by the bare-
metal application is done, master needs to properly shut down the remote
processor To shut down the remote processor, the following steps are performed:
1. The master application sends an application-specific shut-down message to the
remote context 2. This bare-metal application cleans up application resources,
sends a shut-down acknowledge to master, and invokes remoteproc_resource_deinit
API to de-initialize remoteproc on the bare-metal side. 3. On receiving the
shut-down acknowledge message, the master application invokes the
remoteproc_shutdown API to shut down the remote processor and de-initialize
remoteproc using remoteproc_deinit on its side.

FILES:
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application to send data to remote core, master will generate the matrices and send to remote (FreeRTOS) by informing the FreeRTOS with an IPL, the remote will compute the resulting matrix and send the data back to master. Once the application is run and task by the FreeRTOS application is done, master needs to properly shut down the remote processor. To shut down the remote processor, the following steps are performed: 1. The master application sends an application-specific shutdown message to the remote context. 2. This FreeRTOS application cleans up application resources, sends a shutdown acknowledge to master, and invokes remoteproc_resource_deinit API to de-initialize remoteproc on the FreeRTOS side. 3. On receiving the shutdown acknowledge message, the master application invokes the remoteproc_shutdown API to shut down the remote processor and de-initialize remoteproc using remoteproc_deinit on its side.

FILES:
embeddedsw/lib/sw_apps/openamp_matrix_multiply/src/system/freertos/matrix_multiply.c

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defines a shared memory region in MPU settings for the communication between master and remote using zynqMP_r5_map_mem_region API, it also initializes interrupt controller GIC and register the interrupt service routine for IPI using zynqMP_r5_gic_initialize API. The remoteproc_resource_init API is being called to create the virtio/RPMsg devices required for IPC with the master context. Invocation of this API causes remoteproc on the bare-metal to use the rpmsg name service announcement feature to advertise the rpmsg channels served by the application. The master receives the advertisement messages and performs the following tasks: 1. Invokes the channel created callback registered by the master application 2. Responds to remote context with a name service acknowledgement message After the acknowledgement is received from master, remoteproc on the bare-metal invokes the RPMsg channel-created callback registered by the remote application. The RPMsg channel is established at this point. All RPMsg APIs can be used subsequently on both sides for run time communications between the master and remote software contexts. Upon running the master application to send data to remote core, master will generate the matrices and send to remote (bare-metal) by informing the bare-metal with an IPI, the remote will compute the resulting matrix and send the data back to master. Once the application is ran and task by the bare-metal application is done, master needs to properly shut down the remote processor To shut down the remote processor, the following steps are performed: 1. The master application sends an application-specific shutdown message to the remote context 2. This bare-metal application cleans up application resources, sends a shutdown acknowledge to master, and invokes remoteproc_resource_deinit API to de-initialize remoteproc on the bare-metal side. 3. On receiving the shutdown acknowledge message, the master application invokes the remoteproc_shutdown API to shut down the remote processor and de-initialize remoteproc using remoteproc_deinit on its side.

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FILES:
embeddedsw/lib/sw_apps/openamp_rpc_demo/src/system/freertos/rpc_demo.c

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FatFs - FAT file system module R0.10b (C)ChaN. 2014

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Feb 26,'06 R0.00 Prototype. Apr 29,'06 R0.01 First stable version. Jun 01,'06 R0.02 Added FAT12 support. Removed unbuffered mode. Fixed a problem on small (<32M) partition. Jun 10,'06 R0.02a Added a configuration option (_FS_MINIMUM).

Sep 22,'06 R0.03 Added f_rename(). Changed option _FS_MINIMUM to _FS_MINIMIZE. Dec 11,'06 R0.03a Improved cluster scan algorithm to write files fast. Fixed f_mkdir() creates incorrect directory on FAT32. Feb 04,'07 R0.04 Supported multiple drive system. Changed some interfaces for multiple drive system. Changed f_mountdrv() to f_mount(). Added f_mkfs(). Apr 01,'07 R0.04a Supported multiple partitions on a physical drive. Added a capability of extending file size to f_lseek(). Added minimization level 3. Fixed an endian sensitive code in f_mkfs(). May 05,'07 R0.04b Added a configuration option _USE_NTFLAG. Added FSINFO support. Fixed DBCS name can result FR_INVALID_NAME. Fixed short seek (< csize) collapses the file object. Aug 25,'07 R0.05 Changed arguments of f_read(), f_write() and f_mkfs(). Fixed f_mkfs() on FAT32 creates incorrect FSINFO. Fixed f_mkdir() on FAT32 creates incorrect directory. Feb 03,'08 R0.05a Added f_unlink() and f_utime(). Fixed off by one error at FAT sub-type determination. Fixed btr in f_read() can be mistruncated. Fixed cached sector is not flushed when create and close without write. Apr 01,'08 R0.06 Added fputc(), fputs(), fprintf() and fgets(). Improved performance of f_lseek() on moving to the same or following cluster. Apr 01,'09 R0.07 Merged Tiny-FatFs as a configuration option. (_FS_TINY) Added long file name feature. Added multiple code page feature. Added re-entrancy for multitask operation. Added auto cluster size selection to f_mkfs(). Added rewind option to f_readdir(). Changed result code of critical errors. Renamed string functions to avoid name collision. Apr 14,'09 R0.07a Separated out OS dependent code on reentrant cfg. Added multiple sector size feature. Jun 21,'09 R0.07c Fixed f_unlink() can return FR_OK on error. Fixed wrong cache control in f_lseek(). Added relative path feature. Added f_chdir() and f_chdrive(). Added proper case conversion to extended character. Nov 03,'09 R0.07e Separated out configuration options from ff.h to ffconf.h. Fixed f_unlink() fails to remove a sub-directory on _FS_RPATH. Fixed name matching error on the 13 character boundary. Added a configuration option, _LFN_UNICODE. Changed f_readdir() to return the SFN with always upper case on non-LFN cfg. May 15,'10 R0.08 Added a memory configuration option, (_USE_LFN 3) Added file lock feature. (_FS_SHARE) Added fast seek feature. (_USE_FASTSEEK) Changed some types on the API, XCHAR->TCHAR. Changed .name in the FILINFO structure on Unicode cfg. String functions support UTF-8 encoding files on Unicode cfg. Aug 16,'10 R0.08a Added f_getcwd(). Added sector erase feature. (_USE_ERASE) Moved file lock semaphore table from fs object to the bss. Fixed a
wrong directory entry is created on non-LFN config when the given name contains ".". Fixed f_mkfs() creates wrong FAT32 volume. Jan 15,'11 R0.08b Fast seek feature is also applied to f_read() and f_write(). f_llseek() reports required table size on creating CLMP. Extended format syntax of f_printf(). Ignores duplicated directory separators in given path name. Sep 06,'11 R0.09 f_mkfs() supports multiple partition to complete the multiple partition feature. Added f_idisk(). Aug 27,'12 R0.09a Changed f_open() and f_opendir() reject null object pointer to avoid crash. Changed option name _FS_SHARE to _FS_LOCK. Fixed assertion failure due to OS/2 EA on FAT12/16 volume. Jan 24,'13 R0.09b Added f_setlabel() and f_getlabel(). Oct 02,'13 R0.10 Added selection of character encoding on the file. (_STRF_ENCODE) Added f_closedir(). Added forced full FAT scan for f_getfree(). (_FS_NOFSINFO) Added forced mount feature with changes of f_mount(). Improved behavior of volume auto detection. Improved write throughput of f_puts() and f_printf(). Changed argument of f_chdrive(), f_mkfs(), disk_read() and disk_write(). Fixed f_write() can be truncated when the file size is close to 4GB. Fixed f_open(), f_mkdir() and f_setlabel() can return incorrect error code. Jan 15,'14 R0.10a Added arbitrary strings as drive number in the path name. (_STR_VOLUME_ID) Added a configuration option of minimum sector size. (_MIN_SS) 2nd argument of f_rename() can have a drive number and it will be ignored. Fixed f_mount() with forced mount fails when drive number is > 1. Fixed f_close() invalidates the file object without volume lock. Fixed f_closedir() returns but the volume lock is left acquired. Fixed creation of an entry with LFN fails on too many SFN collisions. May 19,'14 R0.10b Fixed a hard error in the disk I/O layer can collapse the directory entry. Fixed LFN entry is not deleted on delete/rename an object with lossy converted SFN.

-------------------------------------------------------------------------/ MODIFICATION HISTORY: Ver Who Date Changes ----- ---- -------- 3.9 mn 04/18/18 Resolve build warnings for xilffs library
FILES:
embeddedsw/lib/sw_services/xilffs/src/ff.c
--------------------------------------------------------------------------------
POSSIBLE NOTICE(S):
COPYRIGHT TEXT:
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-----------------------------------------------------------------------/ Low
level disk interface module include file (C)ChaN, 2014 /
--------------------------------------------------------------------------------
FILES:
embeddedsw/lib/sw_services/xilffs/src/include/diskio.h
--------------------------------------------------------------------------------
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FILES:
embeddedsw/lib/sw_services/xilffs/src/include/ff.h
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embeddedsw/lib/sw_services/xilffs/src/include/ffconf.h
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Toshiba TH50VSF2580/2581AASB and TH50VSF3680/3681AASB Flash Memory Base Address.
This should be set to the value in the current system as specified in .mhs file.

FILES:
embeddedsw/lib/sw_services/xilmfs/src/utils/flash.tcl

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Makefile for Xilinx MCAP Interface Library (c) 2014-2015 Xilinx Inc.

FILES:
embeddedsw/mcap/linux/Makefile

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1.205 fstests 0.1+gitAUTOINC+e5939ff608-r0

1.206 fuse 2.8.7 :r0.0

1.206.1 Available under license :

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Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.
Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   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.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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 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.

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
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 reproducing the executable from it. However, as a special exception, the source code 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:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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impose that choice.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.211 gawk 4.1.4-r0

1.211.1 Available under license:

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Version 3, 29 June 2007

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.
To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

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5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not
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Appropriate Legal Notices; however, if the Program has interactive
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work need not make them do so.

A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
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in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
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alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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/* Definitions for BSD assembler syntax for Intel 386
   actually AT&T syntax for insns and operands,
adapted to BSD conventions for symbol names and debugging.)

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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix "."s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE, SIZE) \
fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))
/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (".comm ", (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), ",%u
", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (".lcomm ", (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), ",%u
", (int)(ROUNDED)))

#if defined HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
  ( fputs (".lcomm ", (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), ",%u,%u
", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)	
  if ((LOG)!=0) fprintf ((FILE), 	 .align %d
", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)	
  sprintf ((BUF), 	*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "."

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

" Automatically generated by Pod::Man 2.27 (Pod::Simple 3.28)
"
" Standard preamble:
"
Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp

Begin verbatim text
.ft CW
.nf
.ne \$1

End verbatim text
.ft R
.fi

Set up some character translations and predefined strings. \*(-- will
give an unbreakable dash, \*(PI will give pi, \*(L" will give a left
double quote, and \*(R" will give a right double quote. \*(C+ will
give a nicer C++. Capital omega is used to do unbreakable dashes and
therefore won't be available. \*(C‘ and \*(C’ expand to `‘ in nroff,
nothing in troff, for use with C<>.
.tr \(*W-.
.ds C+ C\v'-.1v'h'-.1p's-2+\h'-.1p'+\s0\v'.'1v'h'-.1p'
.ie n \{
  . ds -- \(*W-
  . ds PI pi
  . if \n(.H=4u)&(1m=24u) .ds -- \(*W'h'-.12u'(\*W'h'-.12u'\v'-1p'\s0\v'.'1v'h'-.1p'
    .ie n .g .ds Aq \aq
    .el .ds Aq ^
  .ds C+ C\v'-.1v'h'-.1p's-2+\h'-.1p'+\s0\v'.'1v'h'-.1p'
  .ds C' "
  .ds R" "
  .ds C" "
  .ds C‘ "
  .br\}
 .el\{
  . ds -- \(|(em|)
  . ds PI \(*p
  . ds L" "
  . ds R" "
  . ds C'
  . ds C'
  .br\}
"

Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \aq
.el .ds Aq ^
If the F register is turned on, we'll generate index entries on stderr for
titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
entries marked with X<> in POD. Of course, you'll have to process the
output yourself in some meaningful fashion.

Avoid warning from groff about undefined register 'F'.
.de IX
.. nr rF 0
.if \n(\n .if rF .nr rF 1
.if (\n(rF:\n(\n(g==0)) \{ 
 . if \nF \{ 
 . de IX 
 . tm Index:\$1\n\n%\n"\$2"
.. 
 . if \nF==2 \{ 
 . nr % 0 
 . nr F 2 
 . \} 
 . \} 
 . \}
.. rr rF

Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
Fear. Run. Save yourself. No user-serviceable parts.
 . V fudge factors for nroff and troff
.if n \{
 . ds #H 0
 . ds #V .8m
 . ds #F .3m
 . ds [# \V1
 . ds [# \MP
 . \}
.if t \{
 . ds #H ((1-u-\n(\n(.fu%2u))* .13m)
 . ds #V .6m
 . ds #F 0
 . ds [# \&
 . ds [# \&
 . \}
 . V simple accents for nroff and troff
.if n \{
 . ds `' \&
 . ds ` \&
 . ds ^ \&
 . ds , \&
 . ds ~ ~
IX Title "GPL 7"
.TH GPL 7 "2017-08-14" "gcc-7.2.0" "GNU"

For nroff, turn off justification. Always turn off hyphenation; it makes
way too many mistakes in technical documents.

.SH "NAME"

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.SH "DESCRIPTION"
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\textbf{SS "TERMS AND CONDITIONS"}

\textbf{IX Subsection "TERMS AND CONDITIONS"}

\textbf{IP "0. Definitions."}

\textbf{IX Item "0. Definitions."}

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IP "1. Source Code." 4

IX Item "1. Source Code."

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. IP "17. Interpretation of Sections 15 and 16." 4

. IX Item "17. Interpretation of Sections 15 and 16."

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. IX Subsection "END OF TERMS AND CONDITIONS"

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. Vb 2

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```
PP
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\&   This program comes with ABSOLUTELY NO WARRANTY; for details type "show w".
\&   This is free software, and you are welcome to redistribute it
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.Pe
PP
```

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```
PP
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to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.
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@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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@end smallexample

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

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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#!/usr/bin/python
#
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#
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# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#   update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#   update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0
def report(self, filename, string):
    if filename:
        string = filename + ': ' + string
    sys.stderr.write(string + '
')
    self.num_errors += 1

def ok(self):
    return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(
            # Skip licence files.
            'COPYING', 'COPYING.LIB', 'COPYING3', 'COPYING3.LIB', 'LICENSE', 'fdl.texi', 'gpl_v3.texi', 'fdl-1.3.xml', 'gpl-3.0.xml',
            # Skip auto- and libtool-related files
            'aclocal.m4', 'compile', 'config.guess', 'config.sub', 'depcomp', 'install-sh', 'libtool.m4', 'ltmain.sh', 'ltoptions.m4', '
            'lt~obsolete.m4', 'missing', 'mkdep', 'mkinstalldirs', 'move-if-change', 'shlibpath.m4',
        )
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'\t')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True
    return False

def skip_dir(self, dir, subdir):
return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9]\([?:\[-0-9.,\s]]\[s+and\(s+\)]*[0-9]\]

        # Non-whitespace characters in a copyright holder's name.
        name = '\[\w\-\-\]

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (r'
        # 1: 'Copyright (C)', etc.
        '((Cc)opyright\r
        (\[Cc\]opyright\s+\(\[Cc\]\))\r
        (\[Cc\]opyright\s+%s\r
        (\[Cc\]opyright\s+&copy;\r
        (\[Cc\]opyright\s+@copyright\}\r
        (\[Cc\]opyright = \u"\r
        (\[@set\s+copyright\[w-\+]\])

        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        (\s*%:\s+\r
        (\[@value\{[^\{]*\}\]s+\)')

        # 3: 'by ', if used
        (by\s+)'
# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'( + name + '(?s?: + name + '+))*?)'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
    re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')

self.holders = { '@copying': '@copying' }

self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ', '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

    def parse_year (self, string):
        year = int (string)
        if len (string) == 2:
            if year > 70:
                return year + 1900
            elif len (string) == 4:
return year
raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
        for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
    (min_year, max_year) = self.year_range (years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
next_line = None
pathname = os.path.join (dir, filename)

intro = match.group (1)
if intro.startswith ('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end (2):].strip()
    if after_years != "":
        self.errors.report (pathname,
                          'trailing characters in @set: ' + after_years)
        return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete (match):
        try:
            next_line = file.next()
        except StopIteration:
            break
        # If the next line doesn’t look like a proper continuation,
        # assume that what we’ve got is complete.
        continuation = self.strip_continuation (next_line)
        if not self.continuation_re.match (continuation):
            break
        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + '' + continuation
        next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match (line, match.start())
        assert match

        holder = match.group (4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author (dir, filename):
            assert holder not in self.holders
        elif not holder:
            self.errors.report (pathname, 'missing copyright holder')
            return (False, orig_line, next_line)
        elif holder not in self.holders:
            self.errors.report (pathname,
                                'unrecognised copyright holder: ' + holder)
return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
    + canon_form
    + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

    line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
except OSError:
    pass
return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
mode = None
with open (pathname, 'r') as file:
    prev = None
    mode = os.fstat (file.fileno()).st_mode
    for line in file:
        next_line = None
        # Leave filtered-out lines alone.
        if not (line_filter and line_filter.match (line)):
            match = self.copyright_re.search (line)
            if match:
                res = self.update_copyright (dir, filename, filter,
                                              file, line, match)
                (this_changed, line, next_line) = res
                changed = changed or this_changed

        # Check for copyright lines that might have slipped by.
        elif self.other_copyright_re.search (line):
            self.errors.report (pathname,
                                'unrecognised copyright: %s'
                                % line.strip())
            lines.append (line)
            line = next_line

        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open (tmp_pathname, 'w') as file:
                for line in lines:
                    file.write (line)
                os.fchmod (file.fileno(), mode)
            if self.use_quilt:
                subprocess.call (['quilt', 'add', pathname])
            os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]
# Handle the files in this directory.
for filename in filenames:
    if filter.skip_file (dir, filename):
        sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
    else:
        self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

        Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))

        sys.stdout.write ('
Directories:
')
        format = '%-25s'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + '\n')
            else:
                sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1::]:
        if arg[1:] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len (self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join (chosen_dir, '')
            count = 0
            for (dir, filter) in self.dirs:
                if (dir + os.sep).startswith (canon_dir):
                    count += 1
                    self.copyright.process_tree (dir, filter)
            if count == 0:
                self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
            sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
# Skip files imported from gettext.
if file.readline().find('gettext-') >= 0:
    return True

return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
        ])

def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    # Similarly params/README.
    if filename == 'README' and os.path.basename (dir) == 'params':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (['
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (['
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set (['
            # Contains automatically-generated sources.
            'html',
        ])
The testsuite data files shouldn't be changed.
'data',

# Contains imported images
'images',
]

self.own_files |= set([
    # Contains markup around the copyright owner.
    'spine.xml',
])

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)
        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)

        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
        self.add_external_author('Greg Colvin and Beman Dawes.')
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self.add_external_author('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnattools')
        self.add_dir('gotools')
        self.add_dir('include')
        # intl is imported from upstream.
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libcc1')
        # libcilk is imported from upstream.
        self.add_dir('libcpp', LibCppFilter())
        self.add_dir('libdecmumber')
        # libffi is imported from upstream.
        self.add_dir('libgcc', LibGCCFilter())
        self.add_dir('libgfortran')
        # libgo is imported from upstream.
        self.add_dir('libgomp')
        self.add_dir('libhsail-rt')
        self.add_dir('libiberty')
        self.add_dir('libitm')
        self.add_dir('libobjc')
        # liboffloadmic is imported from upstream.
        self.add_dir('libquadmath')
        # libsanitizer is imported from upstream.
        self.add_dir('libssp')
        # libssp is imported from upstream.
        self.add_dir('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('libvtv')
self.add_dir ('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhbsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]

GCCCmdLine().main()
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Version 3, 29 June 2007

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    </para>
  </listitem>
  <listitem>
    <para>
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</listitem>
<para>
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</listitem>
<para>
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<para>
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@end appendixsubsec Preamble

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/* Definitions for BSD assembler syntax for Intel 386
   (actually AT&T syntax for insns and operands,
   adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.s' to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) 
fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) 
(fputs (".comm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) 
(fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), "%l%u\n", (int)(ROUNDED)))
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
(fputs (".lcomm ", (FILE)),
assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line  
that says to advance the location counter  
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)	
if ((LOG)!=0) fprintf ((FILE), 	"	.align %d\n", (LOG))

/* This is how to store into the string BUF  
the symbol_ref name of an internal numbered label where  
PREFIX is the class of label and NUM is the number within the class.  
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)	
sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

Jan 21, 2002

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.ds PL "p
.ds L" "
.ds R" "
.ds C`
.ds C'
'br\}
\"Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \aqaq
.el .ds Aq `
\"
\"If the F register is >0, we'll generate index entries on stderr for
\"titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
\"entries marked with X<> in POD. Of course, you'll have to process the
\"output yourself in some meaningful fashion.
\"Avoid warning from groff about undefined register 'F'.
.de IX
.. 
.if \nF .nr F 0
.if \nF>0 \n
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\"Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
\"Fear. Run. Save yourself. No user-serviceable parts.
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SEE ALSO

`gfdl`(7), `sf-funding`(7).

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#!/usr/bin/python
#
# Copyright (C) 2013-2016 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1
def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set ({
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltversion.m4',
            'ltObsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',

            # Skip FSF mission statement, etc.
            'gnu.texi',
            'funding.texi',
            'appendix_free.xml',
        })}
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'	')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
    if os.path.exists(base + '.in'):
        return True
    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
return True
return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '‐' for typos.
        ranges = '[0-9][\-0-9,\s]+[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w,.-]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (  # 1: 'Copyright (C)', etc.
            '([Cc]opyright'
            '([Cc]opyrights+([Cc])|)'  # 2: the years. Include the whitespace in the year, so that
            '([Cc]opyrights+%|)'  # we can remove any excess.
            '[Cc]opyrights+&copy;'  # 3: 'by ', if used
            '[Cc]opyrights+@copyright\)'
            '[copyright = u\]'  # 4: the copyright holder. Don't allow multiple consecutive
            '[@set\s+copyright\[w-\]+]'
            'by\s+?\s*\s+\s*.\s*'  # spaces, so that right-margin gloss doesn't get caught
            '([Cc]\s+\s+@value\{[^}]+\}\s+)'
            '
            '([Cc]\s+\s+\s+@value\{[^}]+\}\s+)'
            'by\s+?\s*\s+\s*.\s*'  # (e.g. gnat_ugn.texi).
            '([Cc]\s+\s+@value\{[^}]+\}\s+)'
            '
            '([Cc]\s+\s+@value\{[^}]+\}\s+)'
            'by\s+?\s*\s+\s*.\s*'  # A regexp for notices that might have slipped by. Just matching
            '([Cc]\s+\s+@value\{[^}]+\}\s+)'
            'by\s+?\s*\s+\s*.\s*')
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
    re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ''

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)
    else:
        return year

    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
        for year in self.year_re.findall (years)]
    assert len (year_list) > 0
return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
    (min_year, max_year) = self.year_range (years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
if after_years != ":
    self.errors.report (pathname,
        'trailing characters in @set: ' + after_years)
    return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete (match):
        try:
            next_line = file.next()
        except StopIteration:
            break

        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation (next_line)
        if not self.continuation_re.match (continuation):
            break

        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match (line, match.start())
        assert match
        holder = match.group (4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author (dir, filename):
            assert holder not in self.holders

        elif not holder:
            self.errors.report (pathname, 'missing copyright holder')
            return (False, orig_line, next_line)

        elif holder not in self.holders:
            self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
            return (False, orig_line, next_line)

        else:
            # See whether the copyright is associated with the package
            # author.
            canon_form = self.holders[holder]
            if not canon_form:
return (False, orig_line, next_line)

# Make sure the author is given in a consistent way.
line = (line[:match.start(4)]
    + canon_form
    + line[match.end(4):])

# Remove any 'by'
line = line[:match.start(3)] + line[match.end(3):]

# Update the copyright years.
years = match.group(2).strip()
try:
canon_form = self.canonicalise_years(dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report(pathname, str(e))
return (False, orig_line, next_line)

line = (line[:match.start(2)]
    + ('' if intro.startswith('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end(2):])

# Use the standard (C) form.
if intro.endswith('right'):
    intro += '(C)'
e
elif intro.endswith('c'):
    intro = intro[:-3] + '(C)'
line = line[:match.start(1)] + intro + line[match.end(1):]

# Strip trailing whitespace
line = line.rstrip() + '
'
return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    ...
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                                file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed
                    # Check for copyright lines that might have slipped by.
                    elif self.other_copyright_re.search (line):
                        self.errors.report (pathname,
                                            'unrecognised copyright: %s'
                                            % line.strip())
                        lines.append (line)
                        line = next_line
                        # If something changed, write the new file out.
                        if changed and self.errors.ok():
                            tmp_pathname = pathname + '.tmp'
                            with open (tmp_pathname, 'w') as file:
                                for line in lines:
                                    file.write (line)
                            if self.use_quilt:
                                subprocess.call (
                                    ['quilt', 'add', pathname])
                            os.rename (tmp_pathname, pathname)

    def process_tree (self, tree, filter):
        for (dir, subdirs, filenames) in os.walk (tree):
            # Don't recurse through directories that should be skipped.
            for i in xrange (len (subdirs) - 1, -1, -1):
                if filter.skip_dir (dir, subdirs[i]):
                    del subdirs[i]

            # Handle the files in this directory.
            for filename in filenames:
                if filter.skip_file (dir, filename):
                    sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
                else:
                    self.process_file (dir, filename, filter)

class CmdLine:
def __init__(self, copyright = Copyright):
    self.errors = Errors()
    self.copyright = copyright (self.errors)
    self.dirs = []
    self.default_dirs = []
    self.chosen_dirs = []
    self.option_handlers = dict()
    self.option_help = []

    self.add_option ('--help', 'Print this help', self.o_help)
    self.add_option ('--quilt', '"quilt add" files before changing them',
                     self.o_quilt)
    self.add_option ('--this-year', 'Add the current year to every notice',
                     self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...\n
' % sys.argv[0])
    format = '%-15s %s\n'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('Directories:\n')
    i = 0
    format = '%-25s'
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
if arg[1] != '-':
    self.chosen_dirs.append (arg)
elif arg in self.option_handlers:
    self.option_handlers[arg] (arg)
else:
    self.errors.report (None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len (self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join (chosen_dir, '')
            count = 0
        for (dir, filter) in self.dirs:
            if (dir + os.sep).startswith (canon_dir):
                count += 1
            self.copyright.process_tree (dir, filter)
        if count == 0:
            self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
        sys.exit (0 if self.errors.ok() else 1)

#-----------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([]
# Not part of GCC
'math-68881.h',
)

self.skip_dirs |= set([
    
    # Better not create a merge nightmare for the GNAT folks.
    'ada',

    
    # Handled separately.
    'testsuite',
    ])

self.skip_extensions |= set([
    
    # Maintained by the translation project.
    '.po',

    
    # Automatically-generated.
    '.pot',
    ])

self.fossilised_files |= set([
    
    # Old news won't be updated.
    'ONEWS',
    ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([
            
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
            ])

        def skip_file (self, dir, filename):
            # g++.niklas/README contains historical copyright information
            # and isn't updated.
            if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
                return True
return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (['
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (['
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
GenericFilter.__init__(self)

self.skip_dirs |= set(['
    # Handled separately.
    'testsuite',
])

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

self.skip_files |= set(['
    # Contains no copyright of its own, but quotes the GPL.
    'intro.xml',
])

self.skip_dirs |= set(['
    # Contains automatically-generated sources.
    'html',

    # The testsuite data files shouldn't be changed.
    'data',

    # Contains imported images
    'images',
])

self.own_files |= set(['
    # Contains markup around the copyright owner.
    'spine.xml',
])

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

    canon_fsf = 'Free Software Foundation, Inc.'
    self.add_package_author('Free Software Foundation', canon_fsf)
    self.add_package_author('Free Software Foundation.', canon_fsf)
    self.add_package_author('Free Software Foundation Inc.', canon_fsf)
    self.add_package_author('Free Software Foundation, Inc', canon_fsf)
    self.add_package_author('The Free Software Foundation', canon_fsf)
    self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author('The Free Software Foundation', canon_fsf)
self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author ('Software Foundation, Inc.', canon_fsf)

self.add_external_author ('ARM')
self.add_external_author ('AdaCore')
self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author ('Cavium Networks.')
self.add_external_author ('Faraday Technology Corp.')
self.add_external_author ('Florida State University')
self.add_external_author ('Greg Colvin and Beman Dawes.')
self.add_external_author ('Hewlett-Packard Company')
self.add_external_author ('Information Technology Industry Council.')
self.add_external_author ('James Theiler, Brian Gough')
self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author ('National Research Council of Canada.')
self.add_external_author ('NVIDIA Corporation')
self.add_external_author ('Peter Dimov and Multi Media Ltd.')
self.add_external_author ('Peter Dimov')
self.add_external_author ('Pipeline Associates, Inc.')
self.add_external_author ('Regents of the University of California.')
self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
self.add_external_author ('Silicon Graphics')
self.add_external_author ('Stephen L. Moshier')
self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author ('The Go Authors. All rights reserved.')
self.add_external_author ('The Go Authors.')
self.add_external_author ('The Regents of the University of California.')
self.add_external_author ('Unicode, Inc.')
self.add_external_author ('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnatools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libiberty',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()
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/* gnu.classpath.tools.taglets.CopyrightTaglet
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:"

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }
}
public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
        }
    }
}

...
for (int i = 0; i < tags.length; i++) {
    if (tags[i].text().length() > 0) {
        result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
    }
}
result.append("</dl>");
return result.toString();
}
else {
    return null;
}
}
/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * *
 * * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * *
 * * @author Aaron M. Renn (arenn@urbanophile.com)
 * * @see Permissions
 * * @see PermissionCollection
 * * @since 1.1
 * * @status updated to 1.4
 */

public abstract class Permission implements Guard, Serializable {

/**
 * Compatible with JDK 1.1+.
 */

private static final long serialVersionUID = -5636570222231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * * @serial the name of the permission
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);
/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
* `<code>"(\text{\texttt{get\_Class\_getName}}() + \ldots + \text{\texttt{name}}() + \ldots + \text{\texttt{get\_Actions}}() + \ldots \text{\texttt{)}}"</code>.

* @return this object as a `<code>String</code>`

*/

public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('"');
    string = string.append(getClass().getName());
    string = string.append(' '); // class Permission
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' '); // class Permission
        string = string.append(getActions());
    }
    string = string.append('"');
    return string.toString();
}

/* Permission.java -- Information about an ACL permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is not the same as the class <code>java.security.Permission</code>. *
 * @version 0.0 *
 * @author Aaron M. Renn (arenn@urbanophile.com) */

public interface Permission {
  /**
   * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission. *
   * @param perm The permission to check for equality *
   * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise *
   */
  boolean equals (Object perm);

  /**
   * This method returns this <code>Permission</code> as a <code>String</code>. *
   * @return A <code>String</code> representing this permission. *
   */
  String toString();
}

// DO NOT EDIT THIS FILE - it is machine generated -:*- c++ -:*-

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__
#define __java_security_acl_Permission__
#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
 namespace java
 {
 namespace security
 {
 namespace acl
 {
 class Permission;
 }
 }
 }

 class java::security::acl::Permission : public ::java::lang::Object
 {

 public:
 virtual jboolean equals(::java::lang::Object *) = 0;
 virtual ::java::lang::String * toString() = 0;
 static ::java::lang::Class class$;
 } __attribute__ ((java_interface));

 #endif // __java_security_acl_Permission__

 // DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

 #ifndef __java_security_Permission__
 #define __java_security_Permission__
 #pragma interface

 #include <java/lang/Object.h>
 extern "Java"
 {
 namespace java
 {
 namespace security
 {
 class Permission;
 class PermissionCollection;
 }
 }
 }

 #pragma interface
class java::security::Permission : public ::java::lang::Object
{

public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();

private:
    static const jlong serialVersionUID = -563657022231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;

public:
    static ::java::lang::Class class$;
};

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
    namespace gnu
    {
        namespace javax
        {
            namespace sound
            {
                class AudioSecurityManager$Permission;
            }
        }
    }

    class gnu::javax::sound::AudioSecurityManager$Permission : public java::lang::Enum

AudioSecurityManager$Permission(::java::lang::String *, jint);
public:
static JArray<::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray<::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

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HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) supplied the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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creates an executable that is a derivative of the Library (because it
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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If such an object file uses only numerical parameters, data
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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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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.

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/* Definitions for BSD assembler syntax for Intel 386
   (actually AT&T syntax for insns and operands,
   adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
  fprintf (FILE, "\t.space \%u\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (".comm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",\%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (".lcomm ", (FILE)),

assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
  ( fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line 
that says to advance the location counter 
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)
  if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF 
the symbol_ref name of an internal numbered label where 
PREFIX is the class of label and NUM is the number within the class. 
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
  sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX ""

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

" Automatically generated by Pod::Man 2.16 (Pod::Simple 3.05)
" Standard preamble:
" " Subsection heading
.br
.. 5
 PP
\B\S1\fR
 PP
.. 
.. Vertical space (when we can't use .PP)
.. if t .Sp
.. ne 5
.. PP

---
Set up some character translations and predefined strings. \*(-- will give an unbreakable dash, \*(PI will give pi, \*(L" will give a left double quote, and \*(R" will give a right double quote. \*(C+ will give a nicer C++. Capital omega is used to do unbreakable dashes and therefore won't be available. \*(C' and \*(C` expand to \'' in nroff, nothing in troff, for use with C<>.

\tr \(*W-\)
\ds C+ C\-1.1v\'h-1p\'+s-2+\h-1p+\s0\v'.1v\'h-1p'
\ie n \{
  \ds -- \(*W-
  \ds PI pi
  if (\n(.H=4u)&(1m=24u) .ds -- \(*W\h-12u\)(*W\h-12u-\l" diablo 10 pitch
  if (\n(.H=4u)&(1m=20u) .ds -- \(*W\h-12u\)(*W\h-8u-\l" diablo 12 pitch
  \ds L" "
  \ds R" "
  \ds C' "
  \ds C` "
\br\}
\el\{
  \ds -- \(em\}
  \ds PI \(*p
  \ds L" "
  \ds R" "
  \br\}

Escape single quotes in literal strings from groff's Unicode transform.

\ie \n(.g .ds Aq \(aq
\el .ds Aq \'

If the F register is turned on, we'll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index entries marked with X<> in POD. Of course, you'll have to process the output yourself in some meaningful fashion.

\ie \nF \{
  de IX
  tm Index:\$1\t\n%\t\$2"
Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

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fudge factors for nroff and troff

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.TH GPL 7 "2016-08-22" "gcc-6.2.0" "GNU"

"For nroff, turn off justification. Always turn off hyphenation; it makes way too many mistakes in technical documents.

.SH "NAME"
gpl \- GNU General Public License

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Version 3, 29 June 2007

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IP "1. Source Code." 4

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.IP "b." 4
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.IX Item "c."
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6b.

.IP "d." 4
.IX Item "d."
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on a different server (operated by you or a third party) that supports
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next to the object code saying where to find the Corresponding Source.
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obligated to ensure that it is available for as long as needed to
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.IP "e." 4
.IX Item "e."
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\& IP "17. Interpretation of Sections 15 and 16." 4
\& IX Item "17. Interpretation of Sections 15 and 16."

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```
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.Ve
```

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@enumerate a
@item
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@item
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@end smallexample

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notice like this when it starts in an interactive mode:

@smallexample
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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

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use an ``about box''.

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:
More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)

#!/usr/bin/python
#
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#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0

    def report (self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write (string + '
')
        self.num_errors += 1

    def ok (self):
        self.num_errors = 0
class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config_sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'lt_options.m4',
            'lt_sugar.m4',
            'ltversion.m4',
            'lt_obsolete.m4',
            'missing',
            'mkdep',
            'mkinstdirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',

            # Skip FSF mission statement, etc.
            'gnu.texi',
            'funding.texi',
            'appendix_free.xml',
        ])

        return self.num_errors == 0
# Skip imported texinfo files.

'texinfo.tex',
})

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')

    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True

    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years.  Include ‘.’ for typos.
        ranges = '[0-9][\-][0-9,.,\s]\s*\s+[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w,.-]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (
            # 1: 'Copyright (C)', etc.
            '([Cc]opyright'  
            '([Cc]opyright\s+\([Cc]\))'  
            '([Cc]opyright\s+%s'  
            '([Cc]opyright\s+©'  
            '([Cc]opyright\s+@copyright{}'  
            'copyright = u''  
            '@set\s+copyright[\w-]+')

        # 2: the years.  Include the whitespace in the year, so that
        # we can remove any excess.
        '\s*\(?:' + ranges + '\.?'  
        '@value\{|[^{}]*\}s*')

        # 3: 'by ', if used
        '(by\s+)?'

        # 4: the copyright holder.  Don't allow multiple consecutive
        # spaces, so that right-margin gloss doesn't get caught
        # (e.g. gnat_ugn.texi).
        '\(?:\s?\)?'  
        '+(?:\s?' + name + '\s? + '*)?'

        # A regexp for notices that might have slipped by.  Just matching
        # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
        # HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*\[0-9]\[0-9\]',
    re.IGNORECASE)
self.comment_re = re.compile('#\+[\*]+|\[\*]+|\[|\[\[|\[+|\%+|\//+|\@c \[dnl \]
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ','.
self.separator = ','

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        else:
            return year
    elif len (string) == 4:
        return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))
def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years
    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
self.errors.report (pathname, 
    'trailing characters in @set: '
    + after_years)
return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
while not self.is_complete (match):
    try:
        next_line = file.next()
    except StopIteration:
        break

    # If the next line doesn't look like a proper continuation,
    # assume that what we've got is complete.
    continuation = self.strip_continuation (next_line)
    if not self.continuation_re.match (continuation):
        break

    # Merge the lines for matching purposes.
    orig_line += next_line
    line = line.rstrip() + ' ' + continuation
    next_line = None

    # Rematch with the longer line, at the original position.
    match = self.copyright_re.match (line, match.start())
    assert match

    holder = match.group (4)

    # Use the filter to test cases where markup is getting in the way.
    if filter.by_package_author (dir, filename):
        assert holder not in self.holders
    elif not holder:
        self.errors.report (pathname, 'missing copyright holder')
        return (False, orig_line, next_line)
    elif holder not in self.holders:
        self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
        return (False, orig_line, next_line)
    else:
        # See whether the copyright is associated with the package
        # author.
        canon_form = self.holders[holder]
        if not canon_form:
            return (False, orig_line, next_line)
# Make sure the author is given in a consistent way.
line = (line[:match.start (4)]
       + canon_form
       + line[match.end (4):])

# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)
line = (line[:match.start (2)]
        + ('' if intro.startswith ('copyright = ') else ' ')
        + canon_form + self.separator
        + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '
'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):  
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:  
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
prev = None
for line in file:
    while line:
        next_line = None
        # Leave filtered-out lines alone.
        if not (line_filter and line_filter.match (line)):
            match = self.copyright_re.search (line)
            if match:
                res = self.update_copyright (dir, filename, filter, file, line, match)
                (this_changed, line, next_line) = res
                changed = changed or this_changed

        # Check for copyright lines that might have slipped by.
        elif self.other_copyright_re.search (line):
            self.errors.report (pathname, 'unrecognised copyright: %s'
            % line.strip())
        lines.append (line)
        line = next_line

    # If something changed, write the new file out.
    if changed and self.errors.ok():
        tmp_pathname = pathname + '.tmp'
        with open (tmp_pathname, 'w') as file:
            for line in lines:
                file.write (line)
        if self.use_quilt:
            subprocess.call (["quilt", 'add', pathname])
        os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s

                % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
self.errors = Errors()
self.copyright = copyright (self.errors)
self.dirs = []
self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []

self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', """quilt add"" files before changing them", self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice', self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n' % sys.argv[0])
    'Options:\n' % sys.argv[0])
    format = '%-15s %s
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write (\nDirectories:\n')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]
        if arg[1] != ':':
self.chosen_dirs.append(arg)
elif arg in self.option_handlers:
    self.option_handlers[arg](arg)
else:
    self.errors.report(None,'unrecognised option: ' + arg)
if self.errors.ok():
    if len(self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len(self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join(chosen_dir,'')
            count = 0
            for (dir, filter) in self.dirs:
                if (dir + os.sep).startswith(canon_dir):
                    count += 1
                    self.copyright.process_tree(dir,filter)
            if count == 0:
                self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
        sys.exit(0 if self.errors.ok() else 1)

#---------------------------------------------------------------
class TopLevelFilter(GenericFilter):
    def skip_dir(self, dir, subdir):
        return True

class ConfigFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
    def skip_file(self, dir, filename):
        if filename.endswith('.m4'):
            pathname = os.path.join(dir, filename)
            with open(pathname) as file:
                # Skip files imported from gettext.
                file.readline().find('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
        self.skip_files |= set([#
            Not part of GCC

Open Source Used In IOS XR Release 7.0.1
'math-68881.h',
]

self.skip_dirs |= set ([
    # Better not create a merge nightmare for the GNAT folks.
    'ada',
    
    # Handled separately.
    'testsuite',
    ])

self.skip_extensions |= set ([
    # Maintained by the translation project.
    '.po',
    
    # Automatically-generated.
    '.pot',
    ])

self.fossilised_files |= set ([
    # Old news won't be updated.
    'ONEWS',
    ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
            ])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        return GenericFilter.skip_file (self, dir, filename)
class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'NameDecoder.h':
            return re.compile ('.*NAME_COPYRIGHT')
        if filename == 'ICC_Profile.h':
            return re.compile ('.*icSigCopyrightTag')
        return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
self.skip_dirs |= set (
    # Handled separately.
    'testsuite',
)

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        )

        self.skip_dirs |= set (
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        )

        self.own_files |= set (
            # Contains markup around the copyright owner.
            'spine.xml',
        )

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// \(C\) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('Software Foundation, Inc.', canon_fsf)

self.add_external_author('ARM')
self.add_external_author('AdaCore')
self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author('Cavium Networks.')
self.add_external_author('Faraday Technology Corp.')
self.add_external_author('Florida State University')
self.add_external_author('Greg Colvin and Beman Dawes.')
self.add_external_author('Hewlett-Packard Company')
self.add_external_author('Information Technology Industry Council.')
self.add_external_author('James Theiler, Brian Gough')
self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author('National Research Council of Canada.')
self.add_external_author('NVIDIA Corporation')
self.add_external_author('Peter Dimov and Multi Media Ltd.')
self.add_external_author('Peter Dimov')
self.add_external_author('Pipeline Associates, Inc.')
self.add_external_author('Regents of the University of California.')
self.add_external_author('Silicon Graphics Computer Systems, Inc.')
self.add_external_author('Silicon Graphics')
self.add_external_author('Stephen L. Moshier')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto')

class GCCCmdLine(CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
self.add_dir ('libgomp')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libjava', LibJavaFilter())
self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('libvtv')
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = ['gcc',
'libada',
'libatomic',
'libbacktrace',
'libcpp',
'libdecnumber',
'libgcc',
'libgfortran',
'libgomp',
'libitm',
'libmudflap',
'libobjc',
'libstdc++-v3',
]

GCCCmdLine().main()
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Version 3.1.31 March 2009

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Version 1.3, 3 November 2008


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#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gci/array.h>

extern "Java"
{
    namespace gnu
    {
    namespace javax
namespace sound
{
    class AudioSecurityManager$Permission;
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
    AudioSecurityManager$Permission(::java::lang::String *, jint);
    public:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
    static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
    private:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
    public:
    static ::java::lang::Class class$;
};
#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

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<init>(Ljava/lang/String;I)V  
LineNumberTableLocalVariableTable  
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
private static final String HEADER = "Copyright:"

public String getName() {
    return NAME;
}

public boolean inField() {
    return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {

boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
    if (tags[i].text().length() > 0) {
        haveValidTag = true;
    }
}

if (haveValidTag) {
    StringBuffer result = new StringBuffer();
    result.append("<dl>");
    for (int i = 0; i < tags.length; i++) {
        if (tags[i].text().length() > 0) {
            result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
        }
    }
    result.append("</dl>");
    return result.toString();
} else {
    return null;
}

1f+gnu/classpath/tools/taglets/CopyrightTaglet.java/lang/Objectcom/sun/tools/doclets/TagletNAMEjava/lang/String;
ConstantValue	copyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverview	inPackageinTypeisInlineTagregister(Ljava/util/Map;)V

&(*)
java/util/Map+.put8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;
tagletMapLjava/util/Map;copyrightTagletToString(Lcom/sun/javadoc/Tag;)Ljava/lang/String;3com/sun/javadoc/Tag
506*(Lcom/sun/javadoc/Tag;)Ljava/lang/String;tagLcom/sun/javadoc/Tag;2:;text
=?java/lang/String@Aength()ICjava/lang/StringBuffer
BF<dt>
BHIJappend,(Ljava/lang/String;)Ljava/lang/StringBuffer;Ljava/lang/StringBuilderN<dt><i>Copyright ©#169;
KPQ(Ljava/lang/String;);V
KSI:T-(Ljava/lang/String;)Ljava/lang/StringBuilder;V</i></dt>
KX0Z</dt>
BXtags[Lcom/sun/javadoc/Tag;haveValidTagZiIresultLjava/lang/StringBuffer;
SourceFileCopyrightTaglet.java!

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;
/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */

public abstract class Permission implements Guard, Serializable
{

    /**
     * Compatible with JDK 1.1+.
     */
    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;

    /**
     * Create an instance with the specified name.
     *
     * @param name the permission name
     */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this &lt;code&gt;Permission&lt;/code&gt;.
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this &lt;code&gt;Permission&lt;/code&gt;
 * as a &lt;code&gt;String&lt;/code&gt;. The string should be in canonical order, for
 * example, both &lt;code&gt;new FilePermission(f, "write,read")&lt;/code&gt; and
 * &lt;code&gt;new FilePermission(f, "read,write")&lt;/code&gt; have the action list
 * "read,write".
 * @return the action list for this &lt;code&gt;Permission&lt;/code&gt;
 */
public abstract String getActions();

/**
 * This method returns an empty &lt;code&gt;PermissionCollection&lt;/code&gt; object
 * that can store permissions of this type, or &lt;code&gt;null&lt;/code&gt; if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * &lt;code&gt;implies&lt;/code&gt;.
 * @return a new &lt;code&gt;PermissionCollection&lt;/code&gt;
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a &lt;code&gt;String&lt;/code&gt; representation of this
 * &lt;code&gt;Permission&lt;/code&gt; object. This is in the format:
 * &lt;code&gt;'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 * @return this object as a &lt;code&gt;String&lt;/code&gt;
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

string = string.append('(');
string = string.append(getClass().getName());
string = string.append(' ');
string = string.append(getName());

if (!(getActions().equals('""')))
{
    string = string.append(' ');
    string = string.append(getActions());
}

string = string.append(')');
return string.toString();
} // class Permission

/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public interface Permission
{

/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */

boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */

String toString();
}

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{

Open Source Used In IOS XR Release 7.0.1
namespace security
{
    class Permission;
    class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{
public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();
private:
    static const jlong serialVersionUID = -5636570222231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
    static ::java::lang::Class class$;
};

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
    namespace security
    {
        namespace acl
        {
            class Permission;
        }
    }
}

#endif // __java_security_acl_Permission__
class java::security::acl::Permission : public ::java::lang::Object
{

public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

1.215 gconf 3.2.6 :r0.0

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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 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.

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) 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 reproducing the executable from it. However, as a special exception, the source code 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:
a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

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

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

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

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

That's all there is to it!

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Version 3, 29 June 2007

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0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.
b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application
Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


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 that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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 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.

You must give prominent notice with each copy of the work that the
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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) 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 reproducing the executable from it. However, as a special exception, the source code 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:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these
terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or (at
your option) any later version.

This program is distributed in the hope that it will be useful, but
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You should have received a copy of the GNU General Public License
along with this program. If not, see @url[http://www.gnu.org/licenses/].
@end smallexample
Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}. This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an ``about box''.

You should also get your employer (if you work as a programmer) or school, if any, to sign a ``copyright disclaimer'' for the program, if necessary.
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Version 2, June 1991

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This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.
The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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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.)

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This option is useful when you wish to copy part of the code of
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<signature of Ty Coon>, 1 April 1990
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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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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 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.

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) 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 reproducing the executable from it. However, as a special exception, the source code 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:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the *Lesser* General Public License because it does *less* to protect the user's freedom than the ordinary General Public License. It also provides other free software developers *less* of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is *less* protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
``work based on the library'' and a ``work that uses the library''. The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
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@ifinfo
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@end ifinfo

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which contains a notice placed by the copyright holder or other
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A ``library'' means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The ``Library'', below, refers to any such software library or work
which has been distributed under these terms. A ``work based on the
Library'' means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term ``modification''.)

``Source code'' for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

@item
You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate
@item
The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item
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.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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.

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.

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.

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@enumerate
@item 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.)

@item 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.

@item 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.

@item 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.

@item Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
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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
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It may happen that this requirement contradicts the license
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use both them and the Library together in an executable that you
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@end enumerate

@end iftex
@end heading END OF TERMS AND CONDITIONS
@end iftex
@end ifinfo
@end center END OF TERMS AND CONDITIONS
@end ifinfo

@end page
@end appendixsubsec How to Apply These Terms to Your New Libraries

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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1.226 gevent-websocket 0.10.1

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* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
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* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)

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# who commit code to the project are encouraged to add their names
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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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.)

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   its purpose remains meaningful.

   (For example, a function in a library to compute square roots has
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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 compile or
link a "work that uses the Library" with the Library to produce a
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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
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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

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
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c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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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 reproducing the executable from it. However, as a special exception, the source code 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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1.242 glibc 2.20 :r0.0

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a `"work based on the library"` and a `"work that uses the library"`. The
former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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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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##
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##
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1.256 go-radix git :r0.0

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1.258 gobject-introspection1.48.0p 1.48.0+

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. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>. Please look into snprintf.c for the copyright message.

The complete snprintf package together with documentation is available from

    http://www.ijs.si/software/snprintf/ .

. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at

    src/preproc/grn/gprint.h
    src/preproc/grn/hdb.cpp
    src/preproc/grn/hgraph.cpp
    src/preproc/grn/hpoint.cpp
    src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

    src/devices/xditview/DESC.in
    src/devices/xditview/Dvi.c
    src/devices/xditview/Dvi.h
    src/devices/xditview/DviP.h
    src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages
--------------

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
Hyphenation Patterns

The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
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ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

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The file `tmac/hyphen.fr' contains the same patterns as the file
`frhyph.tex' (for TeX), which can be found at

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The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same
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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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### 1.275 grpc-http2 1.0

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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
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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.
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c) 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.

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.
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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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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
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application-supplied function or table used by this function must
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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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(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.)

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the library.) The hope is that this will lead to faster development of free libraries.

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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.

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fpic
SHAREDLIBCXXFLAGS = -fpic
SHAREDLIBCPPFLAGS = -fpic

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

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

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

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

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

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

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

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

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

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

## Bind internal references

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

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

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
1.302 ICU5.71p 5.71+

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## Makefile:

## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)

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## Commands to generate dependency files

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

## Flags for position independent code

SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC

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

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

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

## Versioned libraries rules
%.$(SO),$(SO_TARGET_VERSION_MAJOR): %.$(SO),$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@
## Bind internal references
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
## End BSD-specific setup
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html;charset=UTF-8">
<title>ICU License - moved to LICENSE</title>
</head>
<body BGCOLOR="#ffffff">
<p>
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</body>
</html>

1.303 ifenslave 1.1.0 :r0.0
1.303.1 Available under license :
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1.304 igb 5.2.18 :r0.0
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1.317 iperf3 3.2-r0

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* and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>
* **************************************************************************
* input and output numbers, converting with kilo, mega, giga
* ************************************************************************** */

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

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1.334 json-c 0.12 :r0.0

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1.337 json-glib 1.2.8

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating
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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.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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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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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.

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   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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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.

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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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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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This code is derived from section 17.1 of Applied Cryptography, second edition, which describes a stream cipher allegedly compatible with RSA Labs "RC4" cipher (the actual description of which is a trade secret). The same algorithm is used as a stream cipher called "arcfour" in Tatu Ylonen's ssh package.

Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can't be used for encryption, but will generate good random numbers.

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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.

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1.370 libcap-native 2.25-r0

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-------------------------------------------------------------------------
1.374 libcgroup 0.41-r0

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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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.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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.

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of these things:

a) Accompany the work with the complete corresponding
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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
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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,
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the user installs one, as long as the modified version is
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c) Accompany the work with a written offer, valid for at least
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specified materials from the same place.

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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
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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.)

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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.
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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
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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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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.

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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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(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.)

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1.378 libcheck0.10.0 0.10.0

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don’t assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   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.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.
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 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.

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
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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) 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
reproducing the executable from it. However, as a special exception,
the source code 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
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:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

<one line to give the library's name and a brief idea of what it does.>  
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License along with this library; if not, write to the Free
Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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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!

**1.383 libdaemon 0.14-r0**

**1.383.1 Available under license :**

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Version 2.1, February 1999

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the version number 2.1.]

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   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.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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.

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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.

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That's all there is to it!
1.385 libdaemon0 0.14

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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
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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
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c) 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.

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.

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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
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1.389 libdrm 2.4.83-r0

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lgpl3_header = ""
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import os
import sys

exclusions = set(['relicense.py'])

def update(text):
    if text.find(lgpl3_header) == -1:
        return text, False
return text.replace(lgpl3_header, mpl2_header), True

rootdir = sys.argv[1]
for root, sub_folders, files in os.walk(rootdir):
    for basename in files:
        if basename in exclusions:
            print 'SKIPPED', filename
            continue
        filename = os.path.join(root, basename)
        fo = file(filename)
        text = fo.read()
        fo.close()

        text, updated = update(text)
        if updated:
            fo = file(filename, "w")
            fo.write(text)
            fo.close()
            print 'UPDATED', filename
        else:
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1.398 libevent2.0.22-stable 2.0.22-stable

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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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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.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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 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.

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) 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 reproducing the executable from it. However, as a special exception, the source code 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:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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1.414 libgudev 231-r0
1.414.1 Available under license:

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special circumstances.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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
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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
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exercise the right to control the distribution of derivative or
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In addition, mere aggregation of another work not based on the Library
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that version instead if you wish.) Do not make any other change in
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Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

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.

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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 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.

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.

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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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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
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1.426 libmnl 1.0.3 :r0.0

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1.434 libnfsidmap 0.25-r0

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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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specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

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from a designated place, offer equivalent access to copy the above
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Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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1.438 libnotify 0.7.7-r0

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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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.)

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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
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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.

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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,
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**1.442 libogg 1.3.2-r0**

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1.445 libomxil-xlnx git-r0

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/**************************************************************************
 * Perl-Compatible Regular Expressions *
**************************************************************************/

/* PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language. */

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conciliation.

*/

/* This module is a wrapper that provides a POSIX API to the underlying PCRE2 functions. */

#if defined HAVE_CONFIG_H
#include "config.h"
#endif

/* Ensure that the PCRE2POSIX_EXP_xxx macros are set appropriately for compiling these functions. This must come before including pcre2posix.h, where they are set for an application (using these functions) if they have not previously been set. */

#if defined(_WIN32) && !defined(PCRE2_STATIC)
# define PCRE2POSIX_EXP_DECL extern __declspec(dllexport)
# define PCRE2POSIX_EXP_DEFN __declspec(dllexport)
#endif

/* Older versions of MSVC lack snprintf(). This define allows for warning/error-free compilation and testing with MSVC compilers back to at least MSVC 10/2010. Except for VC6 (which is missing some fundamentals and fails). */

#if defined(_MSC_VER) && (_MSC_VER < 1900)
#define snprintf _snprintf
#endif

/* Compile-time error numbers start at this value. It should probably never be changed. This #define is a copy of the one in pcre2_internal.h. */
#define COMPILE_ERROR_BASE 100

/* Standard C headers */
#include <ctype.h>
#include <limits.h>
#include <stddef.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

/* PCRE2 headers */
#include "pcre2.h"
#include "pcre2posix.h"

/* When compiling with the MSVC compiler, it is sometimes necessary to include a "calling convention" before exported function names. (This is secondhand information; I know nothing about MSVC myself). For example, something like

void __cdecl function(....)

might be needed. In order so make this easy, all the exported functions have PCRE2_CALL_CONVENTION just before their names. It is rarely needed; if not set, we ensure here that it has no effect. */

#ifndef PCRE2_CALL_CONVENTION
#define PCRE2_CALL_CONVENTION
#endif

/* Table to translate PCRE2 compile time error codes into POSIX error codes. Only a few PCRE2 errors with a value greater than 23 turn into special POSIX codes: most go to REG_BADPAT. The second table lists, in pairs, those that don't. */

static const int eint1[] = {
0,   /* No error */
REG_EESCAPE, /* \ at end of pattern */
REG_EESCAPE, /* \c at end of pattern */
REG_EESCAPE, /* unrecognized character follows \ */
REG_BADBR, /* numbers out of order in { } quantifier */
/* 5 */
REG_BADBR, /* number too big in { } quantifier */
REG_EBRACK, /* missing terminating ] for character class */
REG_ECTYPE, /* invalid escape sequence in character class */
REG_ERANGE, /* range out of order in character class */
REG_BADRPT, /* nothing to repeat */
/* 10 */
REG_ASSERT, /* internal error: unexpected repeat */
REG_BADPAT, /* unrecognized character after (?) or (?- *) */
REG_BADPAT, /* POSIX named classes are supported only within a class */
REG_BADPAT, /* POSIX collating elements are not supported */
REG_EPAREN, /* missing ) */
/* 15 */
REG_ESUBREG, /* reference to non-existent subpattern */
REG_INVARG, /* pattern passed as NULL */
REG_INVARG, /* unknown compile-time option bit(s) */
REG_EPAREN, /* missing ) after (# comment */
REG_ESIZE, /* parentheses nested too deeply */
/* 20 */
REG_ESIZE, /* regular expression too large */
REG_ESPACE, /* failed to get memory */
REG_EPAREN, /* unbalanced closing parenthesis */
REG_ASSERT /* internal error: code overflow */
};

static const int eint2[] = {
30, REG_ECTYPE, /* unknown POSIX class name */
32, REG_INVARG, /* this version of PCRE2 does not have Unicode support */
37, REG_EESCAPE, /* PCRE2 does not support \L, \l, \N{name}, \U, or \u */
56, REG_INVARG, /* internal error: unknown newline setting */
};

/* Table of texts corresponding to POSIX error codes */

static const char *const pstring[] = {
"", /* Dummy for value 0 */
"internal error", /* REG_ASSERT */
"invalid repeat counts in ", /* BADBR */
"pattern error", /* BADPAT */
"? * + invalid", /* BADRPT */
"unbalanced ", /* EBRACE */
"unbalanced ", /* EBRACK */
"collation error - not relevant", /* ECOLLATE */
"bad class", /* ECTYPE */
"bad escape sequence", /* EESCAPE */
"empty expression", /* EMPTY */
"unbalanced ()", /* EPAREN */
"bad range inside ", /* ERANGE */
"expression too big", /* ESIZE */
"failed to get memory", /* ESPACE */
"bad back reference", /* ESUBREG */
"bad argument", /* INVARG */
"match failed" /* NOMATCH */
};
PCRE2POSIX_EXP_DEFN size_t PCRE2_CALL_CONVENTION regerror(int errcode, const regex_t *preg, char *errbuf, size_t errbuf_size)
{
    int used;
    const char *message;

    message = (errcode <= 0 || errcode >= (int)(sizeof(pstring)/sizeof(char *)))?
        "unknown error code" : pstring[errcode];

    if (preg != NULL && (int)preg->re_erroffset != -1)
    {
        used = snprintf(errbuf, errbuf_size, "%s at offset %-6d", message,
                        (int)preg->re_erroffset);
    }
    else
    {
        used = snprintf(errbuf, errbuf_size, "%s", message);
    }

    return used + 1;
}

PCRE2POSIX_EXP_DEFN void PCRE2_CALL_CONVENTION regfree(regex_t *preg)
{
    pcre2_match_data_free(preg->re_match_data);
    pcre2_code_free(preg->re_pcre2_code);
}

/*****************************/
//                Translate error code to string
/*****************************/
* Compile a regular expression *
***********************************************************************/

/*
Arguments:
 preg points to a structure for recording the compiled expression
pattern the pattern to compile
cflags compilation flags

Returns: 0 on success
 various non-zero codes on failure
*/

PCRE2POSIX_EXP_DEFN int PCRE2_CALL_CONVENTION
regcomp(regex_t *preg, const char *pattern, int cflags)
{
 PCRE2_SIZE erroffset;
 int errorcode;
 int options = 0;
 int re_nsub = 0;

 if ((cflags & REG_ICASE) != 0) options |= PCRE2_CASELESS;
 if ((cflags & REG_NEWLINE) != 0) options |= PCRE2_MULTILINE;
 if ((cflags & REG_DOTALL) != 0) options |= PCRE2_DOTALL;
 if ((cflags & REG_UTF) != 0) options |= PCRE2_UTF;
 if ((cflags & REG_UCP) != 0) options |= PCRE2_UCP;
 if ((cflags & REG_UNGREEDY) != 0) options |= PCRE2_UNGREEDY;

 preg->re_cflags = cflags;
 preg->re_pcre2_code = pcre2_compile((PCRE2_SPTR)pattern, PCRE2_ZERO_TERMINATED,
 options, &errorcode, &erroffset, NULL);
 preg->re_erroffset = erroffset;

 if (preg->re_pcre2_code == NULL)
 {
 unsigned int i;

 /* A negative value is a UTF error; otherwise all error codes are greater
 than COMPILER_ERROR_BASE, but check, just in case. */

 if (errorcode < COMPILER_ERROR_BASE) return REG_BADPAT;
 errorcode -= COMPILER_ERROR_BASE;

 for (i = 0; i < sizeof(eint1)/sizeof(const int)); i += 2)
 if (errorcode == eint2[i]) return eint2[i+1];

 return REG_BADPAT;
}
(void)pcre2_pattern_info((const pcre2_code *)preg->re_pcre2_code,
PCRE2_INFO_CAPTURECOUNT, &re_nsub);
preg->re_nsub = (size_t)re_nsub;
preg->re_match_data = pcre2_match_data_create(re_nsub + 1, NULL);

if (preg->re_match_data == NULL)
{
pcre2_code_free(preg->re_pcre2_code);
return REG_ESPACE;
}

return 0;

/*******************************************************************************
 * Match a regular expression
 *******************************************************************************/

/* A suitable match_data block, large enough to hold all possible captures, was
obtained when the pattern was compiled, to save having to allocate and free it
for each match. If REG_NOSUB was specified at compile time, the nmatch and
pmatch arguments are ignored, and the only result is yes/no/error. */

PCRE2POSIX_EXP_DEFN int PCRE2_CALL_CONVENTION
regexec(const regex_t *preg, const char *string, size_t nmatch,
regmatch_t pmatch[], int eflags)
{
int rc, so, eo;
int options = 0;
pcre2_match_data *md = (pcre2_match_data *)preg->re_match_data;

if ((eflags & REG_NOTBOL) != 0) options |= PCRE2_NOTBOL;
if ((eflags & REG_NOTEOL) != 0) options |= PCRE2_NOTEOL;
if ((eflags & REG_NOTEMPTY) != 0) options |= PCRE2_NOTEMPTY;

((regex_t *)preg)->re_erroffset = (size_t)(-1);  /* Only has meaning after compile */

/* When REG_NOSUB was specified, or if no vector has been passed in which to
put captured strings, ensure that nmatch is zero. This will stop any attempt to
write to pmatch. */

if ((preg->re_cflags & REG_NOSUB) != 0 || pmatch == NULL) nmatch = 0;

/* REG_STARTEND is a BSD extension, to allow for non-NUL-terminated strings.
The man page from OS X says "REG_STARTEND affects only the location of the string, not how it is matched". That is why the "so" value is used to bump the start location rather than being passed as a PCRE2 "starting offset". */

if ((eflags & REG_STARTEND) != 0)
{
    if (pmatch == NULL) return REG_INVARG;
    so = pmatch[0].rm_so;
    eo = pmatch[0].rm_eo;
}
else
{
    so = 0;
    eo = (int)strlen(string);
}

rc = pcre2_match((const pcre2_code *)preg->re_pcre2_code,
(PCRE2_SPTR)string + so, (eo - so), 0, options, md, NULL);

/* Successful match */

if (rc >= 0)
{
    size_t i;
    PCRE2_SIZE *ovector = pcre2_get_ovector_pointer(md);
    if ((size_t)rc > nmatch) rc = (int)nmatch;
    for (i = 0; i < (size_t)rc; i++)
    {
        pmatch[i].rm_so = ovector[i*2];
        pmatch[i].rm_eo = ovector[i*2+1];
    }
    for (; i < nmatch; i++) pmatch[i].rm_so = pmatch[i].rm_eo = -1;
    return 0;
}

/* Unsuccessful match */

if (rc <= PCRE2_ERROR_UTF8_ERR1 && rc >= PCRE2_ERROR_UTF8_ERR21)
    return REG_INVARG;

switch(rc)
{
    default: return REG_ASSERT;
    case PCRE2_ERROR_BADMODE: return REG_INVARG;
    case PCRE2_ERROR_BADMAGIC: return REG_INVARG;
    case PCRE2_ERROR_BADOPTION: return REG_INVARG;
    case PCRE2_ERROR_BADUTFOFFSET: return REG_INVARG;
    case PCRE2_ERROR_MATCHLIMIT: return REG_ESPACE;
/* End of pcre2posix.c */

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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.)

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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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1.470 libsd1 1.2.15-r3

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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
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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.

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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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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.

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The test programs in this directory tree are for demonstrating and testing the functionality of the SDL library, and are placed in the public domain.

October 28, 1997
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Sam Lantinga(slouken@libsdl.org)

1.471 libSDL 1.2.15 :r3.0

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   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.

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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.
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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.

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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.)

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October 28, 1997
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Sam Lantinga (slouken@libsdl.org)

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October 28, 1997
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Simple DirectMedia Layer
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Ty Coon, President of Vice

That's all there is to it!

1.481 libsocketcan 0.0.10-r0
1.481.1 Available under license :

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Version 2.1, February 1999

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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.)

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1.482 libsodium 1.0.1 :r0.0

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1.483 libsvolv 0.6.28-r0

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1.484 libsolv-native 0.6.28-r0

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1.485 libsoup-2.4 2.58.2-r0

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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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.)

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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 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 reproducing the executable from it. However, as a special exception, the source code 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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1.487 libtasn1 4.12-r0

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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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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
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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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1.492 libtool 2.4.6-r0

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Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.
commit id: 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009:

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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Version 2.1, February 1999

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1.499 liburcu 0.8.4 :r0.0
1.499.1 Available under license:

Userspace RCU library licensing
Mathieu Desnoyers
September 3, 2012

* LGPLv2.1

The library part is distributed under LGPLv2.1 or later. See lgpl-2.1.txt for license details. Refer to the individual file headers for details.

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xchg() primitive has been rewritten from scratch starting from atomic_ops 1.2 which has a MIT-style license that is intended to allow use in both free and proprietary software:
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* GPLv3 (or later)

The following build-related macro is under GPLv3 (or later):

m4/ax_tls.m4
Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009 :

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code 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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The End

1.501 libusb-compat 0.1.5-r0

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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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.

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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.)

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c) 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
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d) If distribution of the work is made by offering access to copy
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For an executable, the required form of the "work that uses the
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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.

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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.

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<para>
</para>
<!-- ##### SECTION See_Also ##### -->
<para>
</para>
<!-- ##### SECTION Stability_Level ##### -->
<table>
<thead>
<tr>
<th>Function Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>XFCE_LICENSE_GPL</td>
<td>A function to get the text of the XFCE_LICENSE_GPL license.</td>
</tr>
<tr>
<td>XFCE_LICENSE_LGPL</td>
<td>A function to get the text of the XFCE_LICENSE_LGPL license.</td>
</tr>
<tr>
<td>xfce_get_license_text()</td>
<td>A function to get the text of a license.</td>
</tr>
</tbody>
</table>

### Includes

```c
#include <libxfce4util/libxfce4util.h>
```

### Description

The `xfce_get_license_text()` function is used to get the text of a license.

### Functions

#### XFCE_LICENSE_BSD

This function is used to get the text of the BSD license.
Contains the text of the BSD license.

Contains the text of the GNU General Public License.

Contains the text of the GNU Lesser General Public License.

Returns the text of the software license specified in the
translated to the current language. If no
translation is available, the english license text will
be returned.
an `XfceLicenseTextType`.

### Members

<table>
<thead>
<tr>
<th>Enum Member Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>XFCE_LICENSE_TEXT_BSD</td>
<td>the BSD License.</td>
</tr>
<tr>
<td>XFCE_LICENSE_TEXT_GPL</td>
<td>the GNU General Public License.</td>
</tr>
</tbody>
</table>
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#endif
#ifndef __XFCE_LICENSE_H__
#define __XFCE_LICENSE_H__

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 * @XFCE_LICENSE_TEXT_GPL  : the GNU General Public License.
 * @XFCE_LICENSE_TEXT_LGPL : the GNU Lesser General Public License.
 *
 * The license text to return from xfce_get_license_text().
 ***/
typedef enum /*< enum */
{
    XFCE_LICENSE_TEXT_BSD,
    XFCE_LICENSE_TEXT_GPL,
    XFCE_LICENSE_TEXT_LGPL,
} XfceLicenseTextType;

const gchar *xfce_get_license_text (XfceLicenseTextType license_type) G_GNUC_PURE;

#define XFCE_LICENSE_BSD  (xfce_get_license_text (XFCE_LICENSE_TEXT_BSD))
#define XFCE_LICENSE_GPL  (xfce_get_license_text (XFCE_LICENSE_TEXT_GPL))
#define XFCE_LICENSE_LGPL (xfce_get_license_text (XFCE_LICENSE_TEXT_LGPL))

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/* lib/font/fontfile/gunzip.c
   written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.
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1.564 libyaml-native 0.1.7-r0

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1.565 lighttpd 1.4.35 :r1.0

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1.568 linpack 1.0-r0

1.569 linux kernel 4.8 4.8

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Contributors
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.. note::

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Thanks go to the following people for patches and contributions:

- Michael Hunold <m.hunold@gmx.de>

- for the initial saa7146 driver and its recent overhaul

- Christian Theiss
- for his work on the initial Linux DVB driver

- Marcus Metzler <mocm@metzlerbros.de> and
  Ralph Metzler <rjkm@metzlerbros.de>

- for their continuing work on the DVB driver

- Michael Holzt <kju@debian.org>

- for his contributions to the dvb-net driver

- Diego Picciani <d.picciani@novacomp.it>

- for CyberLogin for Linux which allows logging onto EON
  (in case you are wondering where CyberLogin is, EON changed its login
  procedure and CyberLogin is no longer used.)

- Martin Schaller <martin@smurf.franken.de>

- for patching the cable card decoder driver

- Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>

- for various fixes regarding tuning, OSD and CI stuff and his work on VDR

- Steve Brown <sbrown@cortland.com>

- for his AFC kernel thread

- Christoph Martin <martin@uni-mainz.de>

- for his LIRC infrared handler

- Andreas Oberritter <obi@linuxtv.org>,
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  Florian Schirmer <jolt@tuxbox.org>,
  Ronny Strutz <3des@elitedvb.de>,
  Wolfram Joost <dbox2@frokaschwei.de>
  and all the other dbox2 people

- for many bugfixes in the generic DVB Core, frontend drivers and
  their work on the dbox2 port of the DVB driver

- Oliver Endriss <o.endriss@gmx.de>

- for many bugfixes
- Andrew de Quincey <adq_dvb@lidskialf.net>

- for the tda1004x frontend driver, and various bugfixes

- Peter Schildmann <peter.schildmann@web.de>

- for the driver for the Technisat SkyStar2 PCI DVB card

- Vadim Catana <skystar@moldova.cc>,
  Roberto Ragusa <r.ragusa@libero.it> and
  Augusto Cardoso <augusto@carhil.net>

- for all the work for the FlexCopII chipset by B2C2,Inc.

- Davor Emard <emard@softhome.net>

- for his work on the budget drivers, the demux code, 
  the module unloading problems, ...

- Hans-Frieder Vogt <hfvogt@arcor.de>

- for his work on calculating and checking the crc's for the 
  TechnoTrend/Hauppauge DEC driver firmware

- Michael Dreher <michael@5dot1.de> and
  Andreas 'randy' Weinberger

- for the support of the Fujitsu-Siemens Activy budget DVB-S

- Kenneth Aafly <ke-aa@frisurf.no>

- for adding support for Typhoon DVB-S budget card

- Ernst Peinlich <e.peinlich@inode.at>

- for tuning/DiSEqC support for the DEC 3000-s

- Peter Beutner <p.beutner@gmx.net>

- for the IR code for the ttusb-dec driver

- Wilson Michaels <wilsonmichaels@earthlink.net>

- for the lgdt330x frontend driver, and various bugfixes

- Michael Krufky <mkrufty@linuxtv.org>

- for maintaining v4l/dvb inter-tree dependencies
- Taylor Jacob <rtjacob@earthlink.net>
- for the nxt2002 frontend driver

- Jean-Francois Thibert <jeanfrancois@sagetv.com>
- for the nxt2004 frontend driver

- Kirk Lapray <kirk.lapray@gmail.com>
- for the or51211 and or51132 frontend drivers, and
  for merging the nxt2002 and nxt2004 modules into a
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

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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.)

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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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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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.

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For an executable, the required form of the "work that uses the
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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 *     interrupts us (except possibly for removal/insertion of the cable?)
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 *     loss of link, and correctly re-enable PHY when link is
 *     re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStar PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 *     combined, allow nicstar_free_rx_skb to be called to
 *     recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 *     details.
 *
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M. Welsh, 6 July 1996

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Contributors
============

.. note::

This documentation is outdated. There are several other DVB contributors that aren't listed below.

Thanks go to the following people for patches and contributions:

- Michael Hunold <m.hunold@gmx.de>

- for the initial saa7146 driver and its recent overhaul

- Christian Theiss

- for his work on the initial Linux DVB driver

- Marcus Metzler <mocm@metzlerbros.de> and Ralph Metzler <rjkm@metzlerbros.de>

- for their continuing work on the DVB driver

- Michael Holzt <kju@debian.org>

- for his contributions to the dvb-net driver

- Diego Picciani <d.picciani@novacomp.it>

- for CyberLogin for Linux which allows logging onto EON (in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

- Martin Schaller <martin@smurf.franken.de>

- for patching the cable card decoder driver

- Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>

- for various fixes regarding tuning, OSD and CI stuff and his work on VDR

- Steve Brown <sbrown@cortland.com>

- for his AFC kernel thread

- Christoph Martin <martin@uni-mainz.de>
- for his LIRC infrared handler

- Andreas Oberritter <obi@linuxtv.org>,
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  Ronny Strutz <3des@elitedvb.de>,
  Wolfram Joost <dbox2@frokaschwei.de>
  and all the other dbox2 people

- for many bugfixes in the generic DVB Core, frontend drivers and
  their work on the dbox2 port of the DVB driver

- Oliver Endriss <o.endriss@gmx.de>

- for many bugfixes

- Andrew de Quincey <adq_dvb@lidskialf.net>

- for the tda1004x frontend driver, and various bugfixes

- Peter Schildmann <peter.schildmann@web.de>

- for the driver for the Technisat SkyStar2 PCI DVB card

- Vadim Catana <skystar@moldova.cc>,
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  Augusto Cardoso <augusto@carhil.net>

- for all the work for the FlexCopII chipset by B2C2,Inc.

- Davor Emard <emard@softhome.net>

- for his work on the budget drivers, the demux code,
  the module unloading problems, ...

- Hans-Frieder Vogt <hfvogt@arcor.de>

- for his work on calculating and checking the crc's for the
  TechnoTrend/Hauppauge DEC driver firmware

- Michael Dreher <michael@5dot1.de> and
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- for the support of the Fujitsu-Siemens Activy budget DVB-S

- Kenneth Aafly <ke-aa@frisurf.no>
- for adding support for Typhoon DVB-S budget card

- Ernst Peinlich <e.peinlich@inode.at>

- for tuning/DiSEqC support for the DEC 3000-s

- Peter Beutner <p.beutner@gmx.net>

- for the IR code for the ttusb-dec driver

- Wilson Michaels <wilsonmichaels@earthlink.net>

- for the lgdt330x frontend driver, and various bugfixes

- Michael Krufky <mkrufky@linuxtv.org>

- for maintaining v4l/dvb inter-tree dependencies

- Taylor Jacob <rtjacob@earthlink.net>

- for the nxt2002 frontend driver

- Jean-Francois Thibert <jeanfrancois@sagetv.com>

- for the nxt2004 frontend driver

- Kirk Lapray <kirk.lapray@gmail.com>

- for the or51211 and or51132 frontend drivers, and
  for merging the nxt2002 and nxt2004 modules into a
  single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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Firmware provided as part of an XC5000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org> on July 1, 2009.

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Firmware provided as part of an XC4000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@kernellabs.org> on July 1, 2009.

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---------------------------------------------------------------------------
WIS GO7007SB Public Linux Driver
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1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.
A fully built kernel source tree must be available. Typically this will be linked from "/lib/modules/<KERNEL VERSION>/build" for convenience. If this link does not exist, an extra parameter will need to be passed to the 'make' command.

All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the kernel as built-in or modules:

- `CONFIG_HOTPLUG` - Support for hot-pluggable devices
- `CONFIG_MODULES` - Enable loadable module support
- `CONFIG_KMOD` - Automatic kernel module loading
- `CONFIG_FW_LOADER` - Hotplug firmware loading support
- `CONFIG_I2C` - I2C support
- `CONFIG_VIDEO_DEV` - Video For Linux
- `CONFIG_SOUND` - Sound card support
- `CONFIG_SND` - Advanced Linux Sound Architecture
- `CONFIG_USB` - Support for Host-side USB
- `CONFIG_USB_DEVICEFS` - USB device filesystem
- `CONFIG_USB_EHCI_HCD` - EHCI HCD (USB 2.0) support

Additionally, to use the example application, the following options need to be enabled in the ALSA section:

- `CONFIG_SND_MIXER_OSS` - OSS Mixer API
- `CONFIG_SND_PCM_OSS` - OSS PCM (digital audio) API

The hotplug scripts, along with the fxload utility, must also be installed. These scripts can be obtained from <http://linux-hotplug.sourceforge.net/>. Hotplugging is used for loading firmware into the Cypruss EZ-USB chip using fxload and for loading firmware into the driver using the firmware agent.

2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

```
$ make
```

in the top-level directory of the driver kit. First the kernel modules will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the currently-running kernel, or if the module should be built for a kernel other than the currently-running kernel, an additional parameter will need to be passed to make to specify the appropriate kernel source directory:
$ make KERNELSRC=/usr/src/linux-2.6.10-custom3

Once the compile completes, the driver and firmware files should be installed by running:

$ make install

The kernel modules will be placed in "/lib/modules/<KERNEL VERSION>/extra" and the firmware files will be placed in the appropriate hotplug firmware directory, usually /lib/firmware. In addition, USB maps and scripts will be placed in /etc/hotplug/usb to enable fxload to initialize the EZ-USB control chip when the device is connected.

3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the "force_band" parameter to the wis-sony-tuner module:

<table>
<thead>
<tr>
<th>TV band</th>
<th>force_band</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL B/G</td>
<td>B</td>
</tr>
<tr>
<td>PAL I</td>
<td>I</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>D</td>
</tr>
<tr>
<td>SECAM L</td>
<td>L</td>
</tr>
</tbody>
</table>

If the "force_band" parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format.
There are several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force_mpx_mode" parameter must be specified to the wis-sony-tuner module.

<table>
<thead>
<tr>
<th>TV band</th>
<th>Audio subcarrier</th>
<th>force_mpx_mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL B/G</td>
<td>Mono (default)</td>
<td>1</td>
</tr>
<tr>
<td>PAL B/G</td>
<td>A2</td>
<td>2</td>
</tr>
<tr>
<td>PAL B/G</td>
<td>NICAM</td>
<td>3</td>
</tr>
<tr>
<td>PAL I</td>
<td>Mono (default)</td>
<td>4</td>
</tr>
<tr>
<td>PAL I</td>
<td>NICAM</td>
<td>5</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>Mono (default)</td>
<td>6</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (1)</td>
<td>7</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (2)</td>
<td>8</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (3)</td>
<td>9</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>NICAM</td>
<td>10</td>
</tr>
<tr>
<td>SECAM L</td>
<td>Mono (default)</td>
<td>11</td>
</tr>
<tr>
<td>SECAM L</td>
<td>NICAM</td>
<td>12</td>
</tr>
</tbody>
</table>

If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver
should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

```
$ apps/gorecord -duration 60 capture.avi
```

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the -help flag for usage information.

5. USING THE DRIVER

The V4L2 device implemented by the driver provides a standard compressed format API, within the following criteria:

* Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.

* No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.

* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.

* MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.

* Video parameters such as format and input port may not be changed while the encoder is active.

* The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.

* The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio
compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard features of the GO7007SB encoder, which are described below:

GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC_G_COMP_PARAMS ioctl with a pointer to a struct go7007_comp_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_comp_params and call the GO7007_IOC_S_COMP_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_comp_params:

__u32 gop_size
   The maximum number of frames in each Group Of Pictures; i.e. the maximum number of frames minus one between each key frame.

__u32 max_b_frames
   The maximum number of sequential bidirectionally-predicted frames. (B-frames are not yet supported.)

enum go7007_aspect_ratio
   The aspect ratio to be encoded in the aspect_ratio meta-data of the compressed format.

Choices are:
GO7007_ASPECT_RATIO_1_1
GO7007_ASPECT_RATIO_4_3_NTSC
GO7007_ASPECT_RATIO_4_3_PAL
GO7007_ASPECT_RATIO_16_9_NTSC
GO7007_ASPECT_RATIO_16_9_PAL

__u32 flags
   Bit-wise OR of control flags (below)
Flags in struct go7007_comp_params:

- GO7007_COMP_CLOSED_GOP: Only produce self-contained GOPs, used to produce streams appropriate for random seeking.

- GO7007_COMP_OMIT_SEQ_HEADER: Omit the stream sequence header.

GO7007IOC_S_MPEG_PARAMS, GO7007IOC_G_MPEG_PARAMS

These ioctls are used to negotiate MPEG-specific stream parameters when the pixelformat has been set to V4L2_PIX_FMT_MPEG.

To query the current parameters, call the GO7007IOC_G_MPEG_PARAMS ioctl with a pointer to a struct go7007_mpeg_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_mpeg_params and call the GO7007_IOC_S_MPEG_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:

enum go7007_mpeg_video_standard
mpeg_video_standard: The MPEG video standard in which to compress the video.

Choices are:
- GO7007_MPEG_VIDEO_MPEG1
- GO7007_MPEG_VIDEO_MPEG2
- GO7007_MPEG_VIDEO_MPEG4

__u32 flags: Bit-wise OR of control flags (below)

__u32 pali: The profile and level indication to be stored in the sequence header. This is only used as an indicator to the decoder, and does not affect the MPEG features used in the video stream. Not valid for MPEG1.
Choices for MPEG2 are:
GO7007_MPEG2_PROFILE_MAIN_MAIN

Choices for MPEG4 are:
GO7007_MPEG4_PROFILE_S_L0
GO7007_MPEG4_PROFILE_S_L1
GO7007_MPEG4_PROFILE_S_L2
GO7007_MPEG4_PROFILE_S_L3
GO7007_MPEG4_PROFILE_ARTS_L1
GO7007_MPEG4_PROFILE_ARTS_L2
GO7007_MPEG4_PROFILE_ARTS_L3
GO7007_MPEG4_PROFILE_ARTS_L4
GO7007_MPEG4_PROFILE_AS_L0
GO7007_MPEG4_PROFILE_AS_L1
GO7007_MPEG4_PROFILE_AS_L2
GO7007_MPEG4_PROFILE_AS_L3
GO7007_MPEG4_PROFILE_AS_L4
GO7007_MPEG4_PROFILE_AS_L5

Flags in struct go7007_mpeg_params:

GO7007_MPEG_FORCE_DVD_MODE  Force all compression parameters and
    bitrate control settings to comply
    with DVD MPEG2 stream requirements.
    This overrides most compression and
    bitrate settings!

GO7007_MPEG_OMIT_GOP_HEADER  Omit the GOP header.

GO7007_MPEG_REPEAT_SEQHEADER Repeat the MPEG sequence header at
    the start of each GOP.

GO7007IOC_S_BITRATE, GO7007IOC_G_BITRATE

These ioctl are used to set and query the target bitrate value for the
compressed video stream. The bitrate may be selected by storing the
target bits per second in an int and calling GO7007IOC_S_BITRATE with a
pointer to the int. The bitrate may be queried by calling
GO7007IOC_G_BITRATE with a pointer to an int where the current bitrate
will be stored.

Note that this is the primary means of controlling the video quality
for all compression modes, including V4L2_PIX_FMT_MJPEG. The
VIDIOC_S_JPEGCOMP ioctl is not supported.
Installing the WIS PCI Voyager Driver

The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and applied in the order listed:

http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2
http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg
http://dl.bytesex.org/patches/2.6.11-2/saa7134-update

The following patches are included with this SDK and can be applied in any order:

patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff

Check to make sure the CONFIG_VIDEO_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).
RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER

Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE_UDEV=n". To force the use of udev, run "make install USE_UDEV=y".

- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.

- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.

- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.

- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

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The firmware files "dvb-usb-it9135-01.fw" and "dvb-usb-it9135-02.fw" are for ITEtech it9135 Ax and Bx chip versions.

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Firmware provided as part of an XC5000C Linux developers kit by Ramon Cazaress <Ramon.Cazaress@CrestaTech.com> to Devin Heitmueller dheitmueller@linuxtv.org on July 25, 2012.

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1.571 linux-libc-headers 4.12-r0

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.. note::

This documentation is outdated. There are several other DVB contributors that aren't listed below.

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- for the initial saa7146 driver and its recent overhaul

- Christian Theiss

- for his work on the initial Linux DVB driver

- Marcus Metzler <mocm@metzlerbros.de> and Ralph Metzler <rjkm@metzlerbros.de>

- for their continuing work on the DVB driver

- Michael Holzt <kju@debian.org>
- for his contributions to the dvb-net driver
- Diego Picciani <d.picciani@novacomp.it>

- for CyberLogin for Linux which allows logging onto EON
  (in case you are wondering where CyberLogin is, EON changed its login
  procedure and CyberLogin is no longer used.)
- Martin Schaller <martin@smurf.franken.de>

- for patching the cable card decoder driver
- Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>

- for various fixes regarding tuning, OSD and CI stuff and his work on VDR
- Steve Brown <sbrown@cortland.com>

- for his AFC kernel thread
- Christoph Martin <martin@uni-mainz.de>

- for his LIRC infrared handler
- Andreas Oberritter <obi@linuxtv.org>,
  Dennis Noermann <dennis.noermann@noernet.de>,
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  Florian Schirmer <jolt@tuxbox.org>,
  Ronny Strutz <3des@elitedvb.de>,
  Wolfram Joost <dbox2@frokaschwei.de>
  and all the other dbox2 people

- for many bugfixes in the generic DVB Core, frontend drivers and
  their work on the dbox2 port of the DVB driver
- Oliver Endriss <o.endriss@gmx.de>

- for many bugfixes
- Andrew de Quincey <adq_dvb@lidskialf.net>

- for the tda1004x frontend driver, and various bugfixes
- Peter Schildmann <peter.schildmann@web.de>

- for the driver for the Technisat SkyStar2 PCI DVB card
- Vadim Catana <skystar@moldova.cc>,

Roberto Ragusa <r.ragusa@libero.it> and
Augusto Cardoso <augusto@carhil.net>

- for all the work for the FlexCopII chipset by B2C2, Inc.

- Davor Emard <emard@softhome.net>

- for his work on the budget drivers, the demux code, the module unloading problems, ...

- Hans-Frieder Vogt <hfvogt@arcor.de>

- for his work on calculating and checking the crc’s for the TechnoTrend/Hauppauge DEC driver firmware

- Michael Dreher <michael@5dot1.de> and
  Andreas 'randy' Weinberger

- for the support of the Fujitsu-Siemens Activy budget DVB-S

- Kenneth Aafly <ke-aa@frisurf.no>

- for adding support for Typhoon DVB-S budget card

- Ernst Peinlich <e.peinlich@inode.at>

- for tuning/DiSEqC support for the DEC 3000-s

- Peter Beutner <p.beutner@gmx.net>

- for the IR code for the ttusb-dec driver

- Wilson Michaels <wilsonmichaels@earthlink.net>

- for the lgdt330x frontend driver, and various bugfixes

- Michael Krufky <mkrufty@linuxtv.org>

- for maintaining v4l/dvb inter-tree dependencies

- Taylor Jacob <rtjacob@earthlink.net>

- for the nxt2002 frontend driver

- Jean-Francois Thibert <jeanfrancois@sagetv.com>

- for the nxt2004 frontend driver
- Kirk Lapray <kirk.lapray@gmail.com>

- for the or51211 and or51132 frontend drivers, and
  for merging the nxt2002 and nxt2004 modules into a
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com) * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) * *
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc. *
* http://www.hypermall.com/ *
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY *
* interrupts us (except possibly for removal/insertion of the cable?) *
* 10/4/97 - began heavy inline documentation of the code. Corrected typos *
* and spelling mistakes. *
* 10/5/97 - added code to handle PHY interrupts, disable PHY on *
* loss of link, and correctly re-enable PHY when link is *
* re-established. (put back CFG_PHYIE) *
* *
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only. *
* *
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 *
* *
* Linux driver for the IDT77201 NICStAR PCI ATM controller. *
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

* Implementing minimal-copy of received data:
  * IDT always receives data into a small buffer, then large buffers
  * as needed. This means that data must always be copied to create
  * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
  * Fix is simple: make large buffers large enough to hold entire
  * SDU, and leave <small_buffer_data> bytes empty at the start. Then
  * copy small buffer contents to head of large buffer.
  * Trick is to avoid fragmenting Linux, due to need for a lot of large
  * buffers. This is done by 2 things:
  * 1) skb->destructor / skb->atm.recycle_buffer
  *     combined, allow nicstar_free_rx_skb to be called to
  *     recycle large data buffers
  * 2) skb_clone of received buffers
  * See nicstar_free_rx_skb and linearize_buffer for implementation
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  * M. Welsh, 6 July 1996

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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.)

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============

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- for the initial saa7146 driver and its recent overhaul

- Christian Theiss
- for his work on the initial Linux DVB driver

- Marcus Metzler <mocm@metzlerbros.de> and Ralph Metzler <rjkm@metzlerbros.de>
- for their continuing work on the DVB driver

- Michael Holzt <kju@debian.org>
- for his contributions to the dvb-net driver

- Diego Picciani <d.picciani@novacomp.it>
- for CyberLogin for Linux which allows logging onto EON
  (in case you are wondering where CyberLogin is, EON changed its login
  procedure and CyberLogin is no longer used.)

- Martin Schaller <martin@smurf.franken.de>
- for patching the cable card decoder driver

- Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
- for various fixes regarding tuning, OSD and CI stuff and his work on VDR

- Steve Brown <sbrown@cortland.com>
- for his AFC kernel thread

- Christoph Martin <martin@uni-mainz.de>
- for his LIRC infrared handler

- Andreas Oberritter <obi@linuxtv.org>, Dennis Noermann <dennis.noermann@noernet.de>, Felix Domke <tmbinc@elitedvb.net>, Florian Schirmer <jolt@tuxbox.org>, Ronny Strutz <3des@elitedvb.de>, Wolfram Joost <dbox2@frokaschwei.de> and all the other dbox2 people
- for many bugfixes in the generic DVB Core, frontend drivers and their work on the dbox2 port of the DVB driver

- Oliver Endriss <o.endriss@gmx.de>

- for many bugfixes

- Andrew de Quincey <adq_dvb@lidskialf.net>

- for the tda1004x frontend driver, and various bugfixes

- Peter Schildmann <peter.schildmann@web.de>

- for the driver for the Technisat SkyStar2 PCI DVB card

- Vadim Catana <skystar@moldova.cc>, Roberto Ragusa <r.ragusa@libero.it> and Augusto Cardoso <augusto@carhil.net>

- for all the work for the FlexCopII chipset by B2C2, Inc.

- Davor Emard <emard@softhome.net>

- for his work on the budget drivers, the demux code, the module unloading problems, ...

- Hans-Frieder Vogt <hfvogt@arcor.de>

- for his work on calculating and checking the crc's for the TechnoTrend/Hauppauge DEC driver firmware

- Michael Dreher <michael@5dot1.de> and Andreas 'randy' Weinberger

- for the support of the Fujitsu-Siemens Activy budget DVB-S

- Kenneth Aafly <ke-aa@frisurf.no>

- for adding support for Typhoon DVB-S budget card

- Ernst Peinlich <e.peinlich@inode.at>

- for tuning/DiSEqC support for the DEC 3000-s

- Peter Beutner <p.beutner@gmx.net>

- for the IR code for the ttusb-dec driver
- Wilson Michaels <wilsonmichaels@earthlink.net>
  - for the lgdt330x frontend driver, and various bugfixes

- Michael Krufky <mkrufky@linuxtv.org>
  - for maintaining v4l/dvb inter-tree dependencies

- Taylor Jacob <rtjacob@earthlink.net>
  - for the nxt2002 frontend driver

- Jean-Francois Thibert <jeanfrancois@sagetv.com>
  - for the nxt2004 frontend driver

- Kirk Lapray <kirk.lapray@gmail.com>
  - for the or51211 and or51132 frontend drivers, and
    for merging the nxt2002 and nxt2004 modules into a
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 */
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* 
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* 
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* 
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
* 
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M. Welsh, 6 July 1996

*/

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a “work based on the library” and a “work that uses the library”. The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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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.)

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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.

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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.

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.

* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.

* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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

<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy  <name of author>

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

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

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This is free software, and you are welcome to redistribute it
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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

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

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The set of programs and documentation known as "Lmbench" are distributed under the Free Software Foundation's General Public License with the following additional restrictions (which override any conflicting restrictions in the GPL):

1. You may not distribute results in any public forum, in any publication, or in any other way if you have modified the benchmarks.

2. You may not distribute the results for a fee of any kind. This includes web sites which generate revenue from advertising.

If you have modifications or enhancements that you wish included in future versions, please mail those to me, Larry McVoy, at lm@bitmover.com.

==========================================================================

Rationale for the publication restrictions:

In summary:

a) LMbench is designed to measure enough of an OS that if you do well in all categories, you've covered latency and bandwidth in networking, disks, file systems, VM systems, and memory systems.
b) Multiple times in the past people have wanted to report partial results.
Without exception, they were doing so to show a skewed view of whatever it was they were measuring (for example, one OS fit small processes into segments and used the segment register to switch them, getting good results, but did not want to report large process context switches because those didn't look as good).

c) We insist that if you formally report LMbench results, you have to report all of them and make the raw results file easily available. Reporting all of them means in that same publication, a pointer does not count. Formally, in this context, means in a paper, on a web site, etc., but does not mean the exchange of results between OS developers who are tuning a particular subsystem.

We have a lot of history with benchmarking and feel strongly that there is little to be gained and a lot to be lost if we allowed the results to be published in isolation, without the complete story being told.

There has been a lot of discussion about this, with people not liking this restriction, more or less on the freedom principle as far as I can tell. We're not swayed by that, our position is that we are doing the right thing for the OS community and will stick to our guns on this one.

It would be a different matter if there were 3 other competing benchmarking systems out there that did what LMbench does and didn't have the same reporting rules. There aren't and as long as that is the case, I see no reason to change my mind and lots of reasons not to do so. I'm sorry if I'm a pain in the ass on this topic, but I'm doing the right thing for you and the sooner people realize that the sooner we can get on to real work.

Operating system design is a largely an art of balancing tradeoffs. In many cases improving one part of the system has negative effects on other parts of the system. The art is choosing which parts to optimize and which to not optimize. Just like in computer architecture, you can optimize the common instructions (RISC) or the uncommon instructions (CISC), but in either case there is usually a cost to pay (in RISC uncommon instructions are more expensive than common instructions, and in CISC common instructions are more expensive than required). The art lies in knowing which operations are important and optimizing those while minimizing the impact on the rest of the system.

Since Lmbench gives a good overview of many important system features, users may see the performance of the system as a whole, and can see where tradeoffs may have been made. This is the driving force behind the publication restriction: any idiot can optimize certain subsystems while completely destroying overall system performance. If said idiot publishes *only* the numbers relating to the optimized subsystem, then the costs of the optimization are hidden and readers
will mistakenly believe that the optimization is a good idea. By including the publication restriction readers would be able to detect that the optimization improved the subsystem performance while damaging the rest of the system performance and would be able to make an informed decision as to the merits of the optimization.

Note that these restrictions only apply to *publications*. We intend and encourage Imbench's use during design, development, and tweaking of systems and applications. If you are tuning the linux or BSD TCP stack, then by all means, use the networking benchmarks to evaluate the performance effects of various modifications; Swap results with other developers; use the networking numbers in isolation. The restrictions only kick in when you go to *publish* the results. If you sped up the TCP stack by a factor of 2 and want to publish a paper with the various tweaks or algorithms used to accomplish this goal, then you can publish the networking numbers to show the improvement. However, the paper *must* also include the rest of the standard Imbench numbers to show how your tweaks may (or may not) have impacted the rest of the system. The full set of numbers may be included in an appendix, but they *must* be included in the paper.

This helps protect the community from adopting flawed technologies based on incomplete data. It also helps protect the community from misleading marketing which tries to sell systems based on partial (skewed) Imbench performance results.

We have seen many cases in the past where partial or misleading benchmark results have caused great harm to the community, and we want to ensure that our benchmark is not used to perpetrate further harm and support false or misleading claims.

1.575 lmsensors 3.4.0-r0

1.575.1 Available under license:

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Version 2, June 1991

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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.)

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.

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c) 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.

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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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That's all there is to it!
Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

1.576 lmsensors 3.4.0 :r0

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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That's all there is to it!
Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

1.578 logrotate 3.12.3-r0
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# Example makefile for build outside of the LTTng-UST tree.

hello:
${CC} -O2 -I. -o hello -lc -llttng-ust hello.c tp.c

.PHONY: clean
clean:
rm -f hello

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December 5, 2012

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```
Local Variables:
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End:
```

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* imap_gssapi.c is partially derived from sample code in:
* GSS-API Programming Guide
* Part No: 816-1331-11
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Network Working Group		H. Krawczyk
Request for Comments: 2104	IBM
Category: Informational	M. Bellare
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IBM
February 1997

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Parts of nss.c are derived from the Mozilla NSS 3.9.2 source, mozilla/security/nss/cmd/smimetools/cmsutil.c. Therefore:

```plaintext
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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.)

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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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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
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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
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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
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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
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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 reproducing the executable from it. However, as a special exception, the source code 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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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
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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1.609 makedevs-native 1.0.1-r0

1.610 makedumpfile 1.5.8 :r0.0

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== MariaDB ==

The Debian package of MySQL was first debianized on 1997-04-12 by Christian Schwarz <schwarz@debian.org> and is maintained since 1999-04-20 by
Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

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1.618 matchbox-config-gtk 0.2-r0

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1.623 matchbox-theme-sato 0.2-r0
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1.625 mc 4.8.19-r0

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now maintained by Michael Meskes <meskes@debian.org>.

This package was put together by me, Bernd Eckenfels <ecki@debian.org>,
from the sources, which I obtained from
http://charm.cs.uiuc.edu/~jyelon/software.html

The debian/* Files are based on Ian Jacksons hello Package.

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<title>License / Copyright Information</title>
<link rel="stylesheet" type="text/css" href="mesa.css">
</head>
<body>

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</div>

<iframe src="contents.html"></iframe>

<div class="content">
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</div>
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<pre>
<table>
<thead>
<tr>
<th>Component</th>
<th>Location</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Mesa code</td>
<td>src/mesa/</td>
<td>MIT</td>
</tr>
<tr>
<td>Device drivers</td>
<td>src/mesa/drivers/*</td>
<td>MIT, generally</td>
</tr>
<tr>
<td>Gallium code</td>
<td>src/gallium/</td>
<td>MIT</td>
</tr>
<tr>
<td>Ext headers</td>
<td>include/GL/glext.h, include/GL/glxext.h</td>
<td>Khronos</td>
</tr>
<tr>
<td>GLX client code</td>
<td>src/glx/</td>
<td>SGI Free Software License B</td>
</tr>
<tr>
<td>C11 thread, emulation</td>
<td>include/c11/threads*.h</td>
<td>Boost (permissive)</td>
</tr>
</tbody>
</table>
</pre>
In general, consult the source files for license terms.
/* Legal characters in GLSL are:
 *
 * Identifier characters:
 * *
 *   Letters a-z
 *   Letters A-Z
 *   Underscore
 *   Numbers 0-9
 * *
 * Punctuation:
 * *
 *   Period, plus, dash, slash, asterisk, percent, angled brackets,
* square brackets, parentheses, braces, caret, vertical bar,
* ampersand, tilde, equals, exclamation point, colon, semicolon,
* comma, and question mark
*
* Special:
*
* Number sign (as used in preprocessor)
*
* Backslash just before newline as line continuation
*
* White space:
*
* Space, horizontal tab, vertical tab, form feed, carriage-return,
* and line-feed.
*
* [GLSL Language Specification 4.30.6, section 3.1]
*
* In this file, we test each of these in turn as follows:
*
* Identifier characters: All pass through unchanged
* Punctuation: All pass through unchanged
* Special: Empty directive replaced with blank line
* Line continuation merges two lines, then a blank line
* Whitespace: 4 horizontal space characters each replaced with space
* 2 newline characters each replaced with a newline
*
*/
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKMLNOPQRSTUVWXYZ
_0123456789
.
+
-
/
*
%
<
>
[
]
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}
^&
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1.659 mtd-utils-native 2.0.0-r0

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1.660 mtdev 1.1.5-r0

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1.664 mxml 2.6

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October 18, 2005

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This package was put together by Vaidhyanathan G Mayilrangam 
<vaidhy@debian.org> and Joel Klecker <espy@debian.org>, using sources 
Current versions of the ncurses sources are found at 
ftp://invisible-island.net/ncurses/.

It is based somewhat on work done by Bruce Perens <Bruce@Pixar.com>, 
David Engel <david@elo.ods.com>. Michael Alan Dorman 
<mdorman@debian.org>, Richard Braakman <dark@xs4all.nl>, James Troup 
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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.5 2017/01/08 00:33:50 tom Exp $
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1.670 ncurses-native 6.0+20170715-r0

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This package was put together by Vaidhyanathan G Mayilrangam
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David Engel <david@elo.ods.com>, Michael Alan Dorman
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1.674.1 Available under license :

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1.676 net-tools 1.60-20-r0

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1.677 netbase 5.3

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*/

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#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS
  uv__io_t event_watcher;          \

#define UV_IO_PRIVATE_PLATFORM_FIELDS
  int rcount;                       \
  int wcount;                      \

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

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This package parses SPDX license expression strings describing license terms, like [package.json license strings](https://docs.npmjs.com/files/package.json#license), into consistently structured ECMAScript objects. The npm command-line interface depends on this package, as do many automatic license-audit tools.

In a nutshell:

```javascript
var parse = require('spdx-expression-parse')
var assert = require('assert')

assert.deepEqual(
// Licensed under the terms of the Two-Clause BSD License.
parse('BSD-2-Clause'),
{license: 'BSD-2-Clause'}
)

assert.throws(function () {
// An invalid SPDX license expression.
// Should be `Apache-2.0`.
parse('Apache 2')
})

assert.deepEqual(
// Licensed under the terms of the Two-Clause BSD License.
parse('BSD-2-Clause'),
{license: 'BSD-2-Clause'}
)
Open Source Used In IOS XR Release 7.0.1

// Dual licensed under LGPL 2.1 or a combination of the Three-Clause
// BSD License and the MIT License.
parse('(`LGPL-2.1 OR BSD-3-Clause AND MIT`)'),
{
  left: {license: 'LGPL-2.1'},
  conjunction: 'or',
  right: {
    left: {license: 'BSD-3-Clause'},
    conjunction: 'and',
    right: {license: 'MIT'}
  }
}
```

The syntax comes from the [Software Package Data eXchange (SPDX)](https://spdx.org/), a standard from the
[Linux Foundation](https://www.linuxfoundation.org) for shareable data about software package license terms.  
SPDX aims to make sharing and auditing license data easy, especially for users of open-source software.

The bulk of the SPDX standard describes syntax and semantics of XML metadata files.  This package implements
two lightweight, plain-text components of that larger standard:

1. The [license list](https://spdx.org/licenses), a mapping from specific string identifiers, like 'Apache-2.0', to
standard form license texts and bolt-on license exceptions.  The [spdx-license-ids](https://www.npmjs.com/package/spdx-license-ids) and [spdx-exceptions](https://www.npmjs.com/package/spdx-exceptions) packages implement the license list.  They are
development dependencies of this package.

Any license identifier from the license list is a valid license expression:

```javascript
require('spdx-license-ids').forEach(function (id) {
  assert.deepEqual(parse(id), {license: id})
})
```

So is any license identifier `WITH` a standardized license exception:

```javascript
require('spdx-license-ids').forEach(function (id) {
  require('spdx-exceptions').forEach(function (e) {
    assert.deepEqual(
      parse(id + ' WITH ' + e),
      {license: id, exception: e}
    )
  })
})
```
2. The license expression language, for describing simple and complex license terms, like `MIT` for MIT-licensed and `(GPL-2.0 OR Apache-2.0)` for dual-licensing under GPL 2.0 and Apache 2.0. This package implements the license expression language.

```javascript
```

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
=======================================================================
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3. [3]Bernd Almeier <altmeier@atlssoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpswep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
scripts, syslog cleanup, dynamic interface handling
29. [32] Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to
comply with NTPv4 specification, ntpq saveconfig
30. [33] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX
modifications, HPUX modifications
31. [34] Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox
GPS clock driver
33. [36] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation
code for Version 3 as specified in RFC-1305
Maintenance
37. [40] David L. Mills <mills@udel.edu> Version 4 foundation,
precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19,
22, 36
38. [41] Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
39. [42] Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43] Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45] Derek Mulcahy <derekg@toybox.demon.co.uk> and [46] Damon
Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code
maintenance
44. [48] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>
monitoring/trap scripts, statistics file handling
45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for
NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of
space on the stuff in the html/pic/ subdirectory
49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware 1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock
driver
52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
makeover, various other bits (see the ChangeLog)
53. [57] Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast
support
55. [59] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock
driver
56. [60] Brian Utterback <brian.utterback@oracle.com> General codebase,
Solaris issues
57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing
(libseccomp) support
58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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copyright = {
    date   = "1992-2017";
    owner  = "The University of Delaware and Network Time Foundation";
    eaddr  = "http://bugs.ntp.org, bugs@ntp.org";
    type   = ntp;
};

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `eval VERSION=`\"sed -e 's/\*[// -e 's/\]/' < ../sntp/m4/version.m4' [ -z "$\{VERSION\}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid echo $VERSION`;
version-value = ":/" Don't use -v as a shortcut for --version */

/*
* HMS: man pages already have this, and texi pages can use the
* values in sntp/include/version.texi .
*/
// doc-sub = {
//   sub-name = version;
//   sub-text = 's/#VERSION#/<<version>>/g';
// }
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
<meta http-equiv="content-type" content="text/html;charset=iso-8859-1">
<title>Copyright Notice</title>
<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->
<link href="scripts/style.css" type="text/css" rel="stylesheet">
</head>
<body>
<h3>Copyright Notice</h3>
<img src="pic/sheepb.jpg" alt="jpg" align="left"> "Clone me," says Dolly sheepishly.
<p>Last update:
<!-- #BeginDate format:En2m -->2-Jan-2017  11:58<!-- #EndDate -->
UTC</p>
<br clear="left">
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```

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- Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
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General codebase, Solaris issues

Sandboxing (libseccomp) support

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1.700 opencv 3.3-r0

1.701 openssh 7.5p1-r0

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/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $*/

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLRDNORM 0x0040
#define POLLPRI 0x0002
#define POLLNORM POLLRDNORM
#define POLLRDBAND 0x0080
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int setresgid(gid_t, gid_t, gid_t);
#endif
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
/*
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 *
 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*((int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) !((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) !WIFEXITED(w) && !WIFSTOPPED(w)
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)
#endif
#endif
*/
Open Source Used In IOS XR Release 7.0.1
/* Prototype */
pid_t waitpid(int, int *, int);

#ifdef /* HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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* 
* Optimised ANSI C code for the Rijndael cipher (now AES)
* 
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1.713 orc 0.4.27

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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Also, for each distributor’s protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors’ reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone’s free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don’t assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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 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.

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1.721 pango 1.40.1

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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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**1.726 pbzip2-native 1.1.13**

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Jeff Gilchrist, Ottawa, Canada.
pbzip2@compression.ca
pbzip2 version 1.1.13 of Dec 18, 2015

1.727 pciutils 3.2.1 :r0.0

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1.729 pcmmanfm 1.2.5-r0

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school, if any, to sign a "copyright disclaimer" for the program, if
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1.732 perl 5.20.0 :r1.0
1.732.1 Available under license :

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The End
---
abstract: 'Build and install Perl modules'
copyright.t

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
c<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the c<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) { skip_all( "Not all files are available during cross-compilation" ); }
my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'");

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/s
        or die "Copyright statement not found in perl -v output '$output\n
$year;
}

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#!/perl

=head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\d{4,}/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b\d{4,}/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

abstract: 'Build and install Perl modules'
author:
    - 'Ken Williams <kwilliams@cpan.org>'
    - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-
build@perl.org>.
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

= documentation

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C/perl -v/ output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C/--now>/ option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();

1.734 perl5.22.1p 5.22.1+
1.734.1 Available under license :

#!perl

=cut
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "");
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message \'$copyright_msg\'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output \'$output\'";

    $year;
}
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>,'
- "Development questions, bug reports, and patches should be sent to the
Module-Build mailing list at <module-build@perl.org>."
buildRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
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```

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

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<one line to give the program's name and a brief idea of what it does.>
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

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

That's all there is to it!

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#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all("Not all files are available during cross-compilation");
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = "";
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /\b(\d{4,})\b/i
    or die "Copyright statement not found in perl -v output '$output'";

  $year;
}
---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the
    Module-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
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1.751 pkgconfig 0.28 :r0.0

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1.753 pm-utils 1.4.1-r1

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embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/GCC/ARM_CA53/portmacro.h
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embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/GCC/ARM_CA9/port.c
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/GCC/ARM_CR5/port.c
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/stream_buffer.c
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/tasks.c
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/timers.c

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This is the list implementation used by the scheduler. While it is tailored heavily for
the schedulers needs, it is also available for use by application code. list_ts
can only store pointers to list_item_ts. Each ListItem_t contains a numeric
value (xItemValue). Most of the time the lists are sorted in descending item
value order. Lists are created already containing one list item. The value of
this item is the maximum possible that can be stored, it is therefore always at
the end of the list and acts as a marker. The list member pxHead always points
to this marker - even though it is at the tail of the list. This is because the
tail contains a wrap back pointer to the true head of the list. In addition to
it's value, each list item contains a pointer to the next item in the list
(pxNext), a pointer to the list it is in (pxContainer) and a pointer to back to
the object that contains it. These later two pointers are included for
efficiency of list manipulation. There is effectively a two way link between the
object containing the list item and the list item itself. 

List Implementation

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/include/list.h

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Message buffers build functionality on top of FreeRTOS stream buffers. Whereas stream
buffers are used to send a continuous stream of data from one task or interrupt
to another, message buffers are used to send variable length discrete messages
from one task or interrupt to another. Their implementation is light weight,
making them particularly suited for interrupt to task and core to core
communication scenarios. NOTE: Uniquely among FreeRTOS objects, the stream
buffer implementation (so also the message buffer implementation, as message
buffers are built on top of stream buffers) assumes there is only one task or
interrupt that will write to the buffer (the writer), and only one task or
interrupt that will read from the buffer (the reader). It is safe for the writer
and reader to be different tasks or interrupts, but, unlike other FreeRTOS
objects, it is not safe to have multiple different writers or multiple different
readers. If there are to be multiple different writers then the application
writer must place each call to a writing API function (such as
xMessageBufferSend()) inside a critical section and set the send block time to
0. Likewise, if there are to be multiple different readers then the application
writer must place each call to a reading API function (such as
xMessageBufferRead()) inside a critical section and set the receive timeout to
0. Message buffers hold variable length messages. To enable that, when a message
is written to the message buffer an additional sizeof(size_t) bytes are also
written to store the message's length (that happens internally, with the API
function). sizeof(size_t) is typically 4 bytes on a 32-bit architecture, so
writing a 10 byte message to a message buffer on a 32-bit architecture will
actually reduce the available space in the message buffer by 14 bytes (10 byte
are used by the message, and 4 bytes to hold the length of the message). /

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/include/message_buffer.h
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the MPU is used the standard (non MPU) API functions are mapped to equivalents
that start "MPU_", the prototypes for which are defined in this header files.
This will cause the application code to call the MPU_ version which wraps the
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FILES:
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Portable layer API. Each function must be defined for each port.
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Stream buffers are used to send a continuous stream of data from one task or interrupt
to another. Their implementation is light weight, making them particularly
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Uniquely among FreeRTOS objects, the stream buffer implementation (so also the
message buffer implementation, as message buffers are built on top of stream
buffers) assumes there is only one task or interrupt that will write to the
buffer (the writer), and only one task or interrupt that will read from the
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multiple different writers or multiple different readers. If there are to be
multiple different writers then the application writer must place each call to a
writing API function (such as xStreamBufferSend()) inside a critical section and
set the send block time to 0. Likewise, if there are to be multiple different
readers then the application writer must place each call to a reading API
function (such as xStreamBufferRead()) inside a critical section section and set
the receive block time to 0.

FILES:
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embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/GCC/MicroBlazeV9/portmicroblaze.c

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Implementation of functions defined in portable.h for the MicroBlaze port.
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simplest possible implementation of pvPortMalloc(). Note that this
implementation does NOT allow allocated memory to be freed again. See heap_2.c,
heap_3.c and heap_4.c for alternative implementations, and the memory management
pages of http://www.FreeRTOS.org for more information. /

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/MemMang/heap_1.c

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http://www.FreeRTOS.org http://aws.amazon.com/freertos 1 tab 4 spaces! / A sample implementation of pvPortMalloc() and vPortFree() that permits allocated blocks to be freed, but does not combine adjacent free blocks into a single larger block (and so will fragment memory). See heap_4.c for an equivalent that does combine adjacent blocks into single larger blocks. See heap_1.c, heap_3.c and heap_4.c for alternative implementations, and the memory management pages of http://www.FreeRTOS.org for more information. /

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/MemMang/heap_2.c

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Implementation of pvPortMalloc() and vPortFree() that relies on the compilers own malloc() and free() implementations. This file can only be used if the linker is configured to to generate a heap memory area. See heap_1.c, heap_2.c
and heap_4.c for alternative implementations, and the memory management pages of http://www.FreeRTOS.org for more information. /

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/MemMang/heap_3.c
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FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/MemMang/heap_4.c
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A sample implementation of pvPortMalloc() that allows the heap to be defined across multiple non-contiguous blocks and combines (coalescences) adjacent memory blocks as they are freed. See heap_1.c, heap_2.c, heap_3.c and heap_4.c for alternative implementations, and the memory management pages of http://www.FreeRTOS.org for more information.

Usage notes:
vPortDefineHeapRegions() must be called before pvPortMalloc(). pvPortMalloc() will be called if any task objects (tasks, queues, event groups, etc.) are created, therefore vPortDefineHeapRegions() must be called before any other objects are defined. vPortDefineHeapRegions() takes a single parameter. The parameter is an array of HeapRegion_t structures. HeapRegion_t is defined in portable.h as typedef struct HeapRegion { uint8_t pucStartAddress; << Start address of a block of memory that will be part of the heap. size_t xSizeInBytes; << Size of the block of memory. } HeapRegion_t; The array is terminated using a NULL zero sized region definition, and the memory regions defined in the array must appear in address order from low address to high address. So the following is a valid example of how to use the function. HeapRegion_t xHeapRegions[] { { ( uint8_t ) 0x80000000UL, 0x10000 }, << Defines a block of 0x10000 bytes starting at address 0x80000000 { ( uint8_t ) 0x90000000UL, 0xa0000 }, << Defines a block of 0xa0000 bytes starting at address of 0x90000000 { NULL, 0 } << Terminates the array. }; vPortDefineHeapRegions( xHeapRegions ); << Pass the array into vPortDefineHeapRegions(). Note 0x80000000 is the lower address so appears in the array first. /

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/MemMang/heap_5.c

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embeddedsw/XilinxProcessorIPLib/drivers/rtcpsu/examples/xrtcpsu_periodic_alarm_interrupt_example.c
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embeddedsw/XilinxProcessorIPLib/drivers/rtcpsu/examples/xrtcpsu_set_time_example.c
embeddedsw/XilinxProcessorIPLib/drivers/rtcpsu/src/xrtcpsu.c
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embeddedsw/XilinxProcessorIPLib/drivers/tmr_manager/data/tmr_manager_header.h
embeddedsw/XilinxProcessorIPLib/drivers/tmr_manager/data/tmr_manager_intr_header.h
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FILES:
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FILES:
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ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / @file config.h @brief Generated
configuration settings for libmetal. /

FILES:
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OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / @file cpu.h @brief CPU primitives
for libmetal. /

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embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/version.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/metal-test.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/freertos/alloc.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/freertos/atomic.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/freertos/irq.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/freertos/main.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/freertos/mutex.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/freertos/sleep.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/freertos/threads.c
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 handling primitives for libmetal. /

FILES:
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 ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / @file list.h @brief List primitives
for libmetal.
FILES:
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FILE: log.h
@brief Logging support

FILES:
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/ @file mutex.h @brief Mutex primitives for libmetal. /

FILES:
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/ @file generic/shmem.c @brief Generic libmetal shared memory handling. /
FILES:
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primitives for libmetal. @brief Top level include internal to libmetal library
code. /

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routines for libmetal. /

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specific atomic primitives for libmetal. /

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embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/processor/arm/atomic.h
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/processor/x86_64/atomic.h

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FreeRTOS libmetal initialization. /

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OF SUCH DAMAGE. / @file freertos/irq.c @brief FreeRTOS libmetal irq definitions. 
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FreeRTOS mutex primitives for libmetal. /

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FreeRTOS libmetal shared memory handling. /

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specific io definitions. /

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OF SUCH DAMAGE. / @file freertos/zynq7/sys.c @brief machine specific system
primitives implementation. /

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@brief machine specific system primitives implementation. /

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@brief freertos zynqmp_a53 system primitives for libmetal. /

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FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/generic/cache.c

@file generic/cache.c @brief
generic libmetal cache handling.

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FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/generic/device.c

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FILES:
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FILES:
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@file generic/sleep.c  @brief Generic libmetal sleep handling.

FILES:
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ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / @file generic/io.h @brief Generic
specific io definitions. /

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OF SUCH DAMAGE. / @file generic/zynq7/sys.c @brief machine specific system
primitives implementation. /

FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/generic/zynq7/sys.c

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@brief generic zynqmp_r5 system primitives for libmetal. /

FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/generic/zynqmp_r5/sys.h
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generic/microblaze_generic/sys.c @brief machine specific system primitives
implementation. /

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ADvised OF THE POSSIBILITY OF SUCH DAMAGE. / @file linux/alloc.h @brief linux
memory allocattion definitions. /

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ADvised OF THE POSSIBILITY OF SUCH DAMAGE. / @file linux/cache.c @brief Linux
libmetal cache handling. /

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libmetal device operations. /

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libmetal initialization. /

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each <metal/> header can be included without independently without prior
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ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / @file metal-test.h @brief Top level
include internal to libmetal tests. /

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OF SUCH DAMAGE. / @file system/zephyr/metal-test-internal.h @brief Zephyr
include internal to libmetal tests. /

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FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/api/netifapi.c

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FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/api/sockets.c

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FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/api/tcpip.c
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/api/tcpip.c

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starts a DHCP client instance which configures the interface by obtaining an IP address lease and maintaining it. Use dhcp_release(netif) to end the lease and use dhcp_stop(netif) to remove the DHCP client.

FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/dhcp.c

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@file DNS - host name to IP address resolver. / This file implements a DNS host name to IP address resolver. Port to lwIP from uIP by Jim Pettinato April 2007

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DNS.C The lwIP DNS resolver functions are used to lookup a host name and map it to a numerical IP address. It maintains a list of resolved hostnames that can be queried with the dns_lookup() function. New hostnames can be resolved using the dns_query() function. The lwIP version of the resolver also adds a non-blocking version of gethostbyname() that will work with a raw API application. This function checks for an IP address string first and converts it if it is valid. gethostbyname() then does a dns_lookup() to see if the name is already in the table. If so, the IP is returned. If not, a query is issued and the function returns with a ERR_INPROGRESS status. The app using the dns client must then go into a waiting state. Once a hostname has been resolved (or found to be non-existent), the resolver code calls a specified callback function (which must be implemented by the module that uses the resolver). / RFC 1035 - Domain names - implementation and specification RFC 2181 - Clarifications to the DNS
Specification
--------------------------------------------------------------------------
@todo: define good default values (rfc compliance) / @todo: improve answer parsing, more checkings... / @todo: check RFC1035 - 7.3. Processing responses / Includes
--------------------------------------------------------------------------
FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/dns.c
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FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/init.c
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/init.c
--------------------------------------------------------------------------

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@file Dynamic memory manager This is a lightweight replacement for the standard C library malloc(). If you want to use the standard C library malloc() instead, define MEM_LIBC_MALLOC to 1 in your lwipopts.h To let mem_malloc() use pools (prevents fragmentation and is much faster than a heap but might waste some memory), define MEM_USE_POOLS to 1, define MEM_USE_CUSTOM_POOLS to 1 and create a file "lwippools.h" that includes a list of pools like this (more pools can be added between _START and _END): Define three pools with sizes 256, 512, and 1512 bytes LWIP_MALLOC_MEMPOOL_START LWIP_MALLOC_MEMPOOL(20, 256) LWIP_MALLOC_MEMPOOL(10, 512) LWIP_MALLOC_MEMPOOL(5, 1512) LWIP_MALLOC_MEMPOOL_END / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This file is part of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se> Simon Goldschmidt /

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embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/memp.c
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@file Packet buffer management Packets are built from the pbuf data structure. It supports dynamic memory allocation for packet contents or can reference externally managed packet contents both in RAM and ROM. Quick allocation for incoming packets is provided through pools with fixed sized pbufs. A packet may span over multiple pbufs, chained as a singly linked list. This is called a "pbuf chain". Multiple packets may be queued, also using this singly linked list. This is called a "packet queue". So, a packet queue consists of one or more pbuf chains, each of which consist of one or more pbufs. CURRENTLY, PACKET QUEUES ARE NOT SUPPORTED!!! Use helper structs to queue multiple packets. The differences between a pbuf chain and a packet queue are very precise but subtle. The last pbuf of a packet has a ->tot_len field that equals the ->len field. It can be found by traversing the list. If the last pbuf of a packet has a ->next field other than NULL, more packets are on the queue. Therefore, looping through a pbuf of a single packet, has an loop end condition (tot_len p->len), NOT (next NULL). / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This file is part of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se> /
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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/stats.c

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@file Transmission Control Protocol for IP This file contains common functions for the TCP implementation, such as functions for manipulating the data structures and the TCP timer functions. TCP functions related to input and output is found in tcp_in.c and tcp_out.c respectively. / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This file is part of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se> / 

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@file Transmission Control Protocol, incoming traffic
The input processing functions of the TCP layer. These functions are generally called in the order
(ip_input() -> tcp_input() -> tcp_process() -> tcp_receive() (-> application).

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FILES:
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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/tcp_in.c

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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/tcp_out.c

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This file is part of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se> / udp.c The code for the User Datagram Protocol UDP & UDPLite (RFC 3828). / @todo Check the use of `(struct udp_pcb).chksum_len_rx`! /

FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/udp.c

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embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/ipv4/autoip.c

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messages should be passed to the transport protocols. This is not implemented. /

FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/ipv4/icmp.c
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv4/icmp.c

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code. Note 1) Although the rfc requires V1 AND V2 capability we will only
support v2 since now V1 is very old (August 1989) V1 can be added if required a
debug print and statistic have been implemented to show this up. Note 2) A query
for a specific group address (as opposed to ALLHOSTS) has now been implemented
as I am unsure if it is required a debug print and statistic have been
implemented to show this up. Note 3) The router alert rfc 2113 is implemented in
outgoing packets but not checked rigorously incoming Steve Reynolds RFC 988 -
Host extensions for IP multicasting - V0 RFC 1054 - Host extensions for IP
multicasting RFC 1112 - Host extensions for IP multicasting - V1 RFC 2236 -
Internet Group Management Protocol, Version 2 - V2 <- this code is based on this
RFC (it's the "de facto" standard) RFC 3376 - Internet Group Management
Version 3... - V3+ RFC 2113 - IP Router Alert Option

----------------------------------------------------------------------------/
Includes

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FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/ipv4/igmp.c
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embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/snmp/msg_in.c

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@file SNMP output message processing (RFC1157). Output responses and traps are build in two passes: Pass 0: iterate over the output message backwards to determine encoding lengths Pass 1: the actual forward encoding of internal form into ASN1 The single-pass encoding method described by Comer & Stevens requires extra buffer space and copying for reversal of the packet. The buffer requirement can be prohibitively large for big payloads (> 484) therefore we use the two encoding passes. / Copyright (c) 2006 Axon Digital Design B.V., The Netherlands. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2.
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embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/netif/etharp.c
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ADVISIED OF THE POSSIBILITY OF SUCH DAMAGE. This file is part of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se> / This file is a skeleton for developing Ethernet network interface drivers for lwIP. Add code to the low_level functions and do a search-and-replace for the word "ethernetif" to replace it with something that better describes your network interface. /

FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/netif/ethernetif.c
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/netif/ethernetif.c
--------------------------------------------------------------------------------
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sys_arch.c provide sys_arch functionality as required for lwIP most of this functionality is obtained from xilkernel this file acts as a wrapper around the xilkernel functions / All rights reserved. Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions: The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. Use of the Software is limited solely to applications: (a) running on a Xilinx device, or (b) that interact with a Xilinx device through a bus or interconnect. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL XILINX BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. Except as contained in this notice, the name of the Xilinx shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from Xilinx

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embeddedsw/ThirdParty/sw_services/lwip202/src/contrib/ports/xilinx/sys_arch.c
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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/Filelists.mk

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@file Sequential API External module @defgroup netconn Netconn API @ingroup sequential_api Thread-safe, to be called from non-TCPIP threads only. TX/RX handling based on @ref netbuf (containing @ref pbuf) to avoid copying data around. @defgroup netconn_common Common functions @ingroup netconn For use with TCP and UDP @defgroup netconn_tcp TCP only @ingroup netconn TCP only functions @defgroup netconn_udp UDP only @ingroup netconn UDP only functions / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR "$AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This file is part of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se>

/ This is the part of the API that is linked with the application /
FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/api/api_lib.c

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FILE Network buffer management @defgroup netbuf Network buffers @ingroup netconn Network buffer descriptor for @ref netconn. Based on @ref pbuf internally to avoid copying data around. In Buffers must not be shared across multiple threads, all functions except netbuf_new() and netbuf_delete() are not thread-safe. / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This file is part of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se> /

FILES:
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FILE API functions for name resolving @defgroup netdbapi NETDB API @ingroup
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@file Network Interface Sequential API module @defgroup netifapi NETIF API @ingroup sequential_api Thread-safe functions to be called from non-TCPIP threads @defgroup netifapi_netif NETIF related @ingroup netifapi To be called from non-TCPIP threads / Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/api/netifapi.c
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@file Sockets BSD-Like API module @defgroup socket Socket API @ingroup sequential_api BSD-style socket API\nThread-safe, to be called from non-TCPIP threads only.\nCan be activated by defining @ref LWIP_SOCKET to 1.\nHeader is in posix/sys/socket.h / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This file is part of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se> Improved by Marc Boucher <marc@mbsi.ca> and David Haas <dhaas@alum.rpi.edu> /

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/api/sockets.c
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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/httpd/fs.c
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/httpd/fsdata.h
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/include/lwip/apps/fs.h

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of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se> Simon Goldschmidt
/ @defgroup httpd HTTP server @ingroup apps This httpd supports for a
rudimentary server-side-include facility which will replace tags of the form <!-
--tag in any file whose extension is .shtml, .shtm or .ssi with strings provided
by an include handler whose pointer is provided to the module via function
http_set_ssi_handler(). Additionally, a simple common gateway interface (CGI)
handling mechanism has been added to allow clients to hook functions to
particular request URIs. To enable SSI support, define label LWIP_HTTPD_SSI in
lwipopts.h. To enable CGI support, define label LWIP_HTTPD_CGI in lwipopts.h. By
default, the server assumes that HTTP headers are already present in each file
stored in the file system. By defining LWIP_HTTPD_DYNAMIC_HEADERS in lwipopts.h,
this behavior can be changed such that the server inserts the headers
automatically based on the extension of the file being served. If this mode is
used, be careful to ensure that the file system image used does not already
contain the header information. File system images without headers can be
created using the makefsfile tool with the -h command line option. Notes about
valid SSI tags The following assumptions are made about tags used in SSI
markers: 1. No tag may contain '-' or whitespace characters within the tag name.
2. Whitespace is allowed between the tag leadin "<!--" and the start of the tag
name and between the tag name and the leadout string ""). 3. The maximum tag name
length is LWIP_HTTPD_MAX_TAG_NAME_LEN, currently 8 characters. Notes on CGI
usage The simple CGI support offered here works with GET method requests only
and can handle up to 16 parameters encoded into the URI. The handler function
may not write directly to the HTTP output but must return a filename that the
HTTP server will send to the browser as a response to the incoming CGI request.
The list of supported file types is quite short, so if makefsdata complains
about an unknown extension, make sure to add it (and its doctype) to the
'g_psHTTPHeaders' list. /

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/httpd/httpd.c
--------------------------------------------------------------------------------

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@file lwIP iPerf server implementation / @defgroup iperf Iperf server @ingroup apps This is a simple performance measuring server to check your bandwith using iPerf2 on a PC as client. It is currently a minimal implementation providing an IPv4 TCP server only. @todo: implement UDP mode and IPv6 / Copyright (c) 2014 Simon Goldschmidt All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This file is part of the lwIP TCP/IP stack. Author: Simon Goldschmidt /

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/lwiperf/lwiperf.c

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@file MDNS responder implementation @defgroup mdns MDNS @ingroup apps RFC 6762 - Multicast DNS\n RFC 6763 - DNS-Based Service Discovery\n @verbinclude mdns.txt
Things left to implement: - Probing/conflict resolution - Sending goodbye messages (zero ttl) - shutdown, DHCP lease about to expire, DHCP turned off... - Checking that source address of unicast requests are on the same network - Limiting multicast responses to 1 per second per resource record - Fragmenting replies if required - Subscribe to netif address/link change events and act on them (currently needs to be done manually) - Handling multi-packet known answers - Individual known answer detection for all local IPv6 addresses - Dynamic size of outgoing packet / Copyright (c) 2015 Verisure Innovation AB All rights reserved. Redistribution and use in source and binary forms, with or without
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<erik@kryo.se> /

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@file MQTT client @defgroup mqtt MQTT client @ingroup apps @verbinclude mqtt_client.txt / Copyright (c) 2016 Erik Andersson <erian747@gmail.com> All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
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ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This file is part of the lwIP TCP/IP
stack. Author: Erik Andersson <erian747@gmail.com> @todo: - Handle large outgoing
payloads for PUBLISH messages - Fix restriction of a single topic in each
(UN)SUBSCRIBE message (protocol has support for multiple topics) - Add support
for legacy MQTT protocol version Please coordinate changes and requests with
Erik Andersson Erik Andersson <erian747@gmail.com> /

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@file NetBIOS name service responder / @defgroup netbiosns NETBIOS responder
@ingroup apps This is an example implementation of a NetBIOS name server. It
responds to name queries for a configurable name. Name resolving is not
supported. Note that the device doesn't broadcast it's own name so can't detect
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<christiaan.simons@axon.tv> Martin Hentschel <info@cl-soft.de> Elias Oenal
<lwip@eliasoenal.com> /

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/snmp/snmp_asn1.h

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Simons <christiaan.simons@axon.tv> Martin Hentschel <info@cl-soft.de> @defgroup
snmp SNMPv2c agent @ingroup apps SNMPv2c compatible agent\nThere is also a MIB
compiler and a MIB viewer in lwIP contrib repository (lwip-
contrib/apps/LwipMibCompiler).\nThe agent implements the most important MIB2
MIBs including IPv6 support (interfaces, UDP, TCP, SNMP, ICMP, SYSTEM). IP MIB is an older version without IPv6 statistics (TODO).

Rewritten by Martin Hentschel <info@cl-soft.de> and Dirk Ziegelmeier <dziegel@gmx.de>

Work on SNMPv3 has started, but is not finished.

0 Agent Capabilities Features:
- SNMPv2c support.
- Low RAM usage - no memory pools, stack only.
- MIB2 implementation is separated from SNMP stack.
- Support for multiple MIBs (snmp_set_mibs() call) - e.g. for private MIB.
- Simple and generic API for MIB implementation.
- Comfortable node types and helper functions for scalar arrays and tables.
- Counter64, bit and truthvalue datatype support.
- Callbacks for SNMP writes e.g. to implement persistency.
- Runs on two APIs: RAW and netconn.
- Async API is gone - the stack now supports netconn API instead, so blocking operations can be done in MIB calls.
- SNMP runs in a worker thread when netconn API is used.
- Simplified thread sync support for MIBs - useful when MIBs need to access variables shared with other threads where no locking is possible. Used in MIB2 to access lwIP stats from lwIP thread.
- MIB compiler (code generator):
  - Provided in lwIP contrib repository.
  - Written in C. MIB viewer used Windows Forms.
  - Developed on Windows with Visual Studio 2010.
  - Can be compiled and used on all platforms with http://www.monodevelop.com/.
  - Based on a heavily modified version of of SharpSnmpLib (a4bd05c6afb4) (https://sharpsnmplib.codeplex.com/SourceControl/network/forks/Nemo157/MIBParserUpdate).
  - MIB parser, C file generation framework and LWIP code generation are cleanly separated, which means the code may be useful as a base for code generation of other SNMP agents.

Notes:
- Stack and MIB compiler were used to implement a Profinet device.
- Compiled/implemented MIBs: LLDP-MIB, LLDP-EXT-DOT3-MIB, LLDP-EXT-PNO-MIB, SNMPv1 per RFC1157 and SNMPv2c per RFC 3416 Note the S in SNMP stands for "Simple".
- Note that "Simple" is relative. SNMP is simple compared to the complex ISO network management protocols CMIP (Common Management Information Protocol) and CMOT (CMip Over Tcp).

MIB II The standard lwIP stack management information base. This is a required MIB, so this is always enabled. The groups EGP, CMOT and transmission are disabled by default. Most mib-2 objects are not writable except: sysName, sysLocation, sysContact, snmpEnableAuthenTraps. Writing to or changing the ARP and IP address and route tables is not possible. Note lwIP has a very limited notion of IP routing. It currently doen't have a route table and doesn't have a notion of the U,G,H flags. Instead lwIP uses the interface list with only one default interface acting as a single gateway interface (G) for the default route. The agent returns a "virtual table" with the default route 0.0.0.0 for the default interface and network routes (no H) for each network interface in the netif_list. All routes are considered to be up (U). Loading additional MIBs MIBs can only be added in compile-time, not in run-time.

1 Building the Agent First of all you'll need to add the following define to your local lwipopts.h:
   `define LWIP_SNMP 1` and add the source files your makefile.
   Note you'll might need to adapt you network driver to update the mib2 variables for your interface.

2 Running the Agent The following function calls must be made in your program to actually get the SNMP agent running. Before starting the agent you should supply pointers for sysContact, sysLocation, and snmpEnableAuthenTraps. You can do this by calling:
   - snmp_mib2_set_syscontact() - snmp_mib2_set_syslocation() - snmp_set_auth_traps_enabled() You can register a callback which is called on successful write access: snmp_set_write_callback().
Additionally you may want to set - snmp_mib2_set_sysdescr() - snmp_set_device_enterprise_oid() - snmp_mib2_set_sysname() Also before starting the agent you need to setup one or more trap destinations using these calls: - snmp_trap_dst_enable() - snmp_trap_dst_ip_set() If you need more than MIB2, set the MIBs you want to use by snmp_set_mibs(). Finally, enable the agent by calling snmp_init() @defgroup snmp_core Core @ingroup snmp @defgroup snmp_traps Traps @ingroup snmp /

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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/snmp/snmp_traps.c

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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/include/lwip/apps/snmpv3.h

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<lwip@eliasoenal.com> Dirk Ziegelmeier <dirk@ziegelmeier.net> /

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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/snmp/snmpv3_mbedtls.c
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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/snmp/snmpv3_priv.h
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@ingroup apps This is simple "SNTP" client for the lwIP raw API. It is a minimal implementation of SNTPv4 as specified in RFC 4330. For a list of some public NTP servers, see this link: http://support.ntp.org/bin/view/Servers/NTPPoolServers
@todo: - set/change servers at runtime - complete SNTP_CHECK_RESPONSE checks 3 and 4

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/sntp/sntp.c

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@file tftp_server.c @author Logan Gunthorpe <logang@deltatee.com> Dirk Ziegelmeier <dziegel@gmx.de> @brief Trivial File Transfer Protocol (RFC 1350) Copyright (c) Deltatee Enterprises Ltd. 2013 All rights reserved. / Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or
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OF SUCH DAMAGE. Author: Logan Gunthorpe <logang@deltatee.com> Dirk Ziegelmeier
<dziegel@gmx.de> / @defgroup tftp TFTP server @ingroup apps This is simple TFTP
server for the lwIP raw API. /

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/tftp/tftp_server.c
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@file Common functions used throughout the stack. These are reference
implementations of the byte swapping functions. Again with the aim of being
simple, correct and fully portable. Byte swapping is the second thing you would
want to optimize. You will need to port it to your architecture and in your
cc.h: 
define lwip_htons(x) your_htons \define lwip_htonl(x) your_htonl Note
lwip_ntohs() and lwip_ntohl() are merely references to the htonx counterparts.
If you \define them to htons() and htonl(), you should \define
LWIP_DONT_PROVIDE_BYTEORDER_FUNCTIONS to prevent lwIP from defining htonx/ntohx
compatibility macros. @defgroup sys_nonstandard Non-standard functions @ingroup
sys_layer lwIP provides default implementations for non-standard functions.
These can be mapped to OS functions to reduce code footprint if desired. All
defines related to this section must not be placed in lwipopts.h, but in
arch/cc.h! These options cannot be \defined in lwipopts.h since they are not
options of lwIP itself, but options of the lwIP port to your system. / Copyright
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This file is part of the lwIP TCP/IP stack. Author: Simon Goldschmidt /

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/def.c
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@file DNS - host name to IP address resolver. @defgroup dns DNS @ingroup
callbackstyle_api Implements a DNS host name to IP address resolver. The lwIP
DNS resolver functions are used to lookup a host name and map it to a numerical
IP address. It maintains a list of resolved hostnames that can be queried with
the dns_lookup() function. New hostnames can be resolved using the dns_query()
function. The lwIP version of the resolver also adds a non-blocking version of
gethostbyname() that will work with a raw API application. This function checks
for an IP address string first and converts it if it is valid. gethostbyname()
then does a dns_lookup() to see if the name is already in the table. If so, the
IP is returned. If not, a query is issued and the function returns with a
ERR_INPROGRESS status. The app using the dns client must then go into a waiting
state. Once a hostname has been resolved (or found to be non-existent), the
resolver code calls a specified callback function (which must be implemented by
the module that uses the resolver). Multicast DNS queries are supported for
names ending on ".local". However, only "One-Shot Multicast DNS Queries" are
supported (RFC 6762 chapter 5.1), this is not a fully compliant implementation
of continuous mDNS querying! All functions must be called from TCPIP thread.
@see @ref netconn_common for thread-safe access. / Port to lwIP from uIP by Jim
Pettinato April 2007 security fixes and more by Simon Goldschmidt uIP version
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----------------------------------------------------------------------------/
@todo: define good default values (rfc compliance) / @todo: improve answer parsing, more checkings... / @todo: check RFC1035 - 7.3. Processing responses / @todo: one-shot mDNS: dual-stack fallback to another IP version / Includes
----------------------------------------------------------------------------/

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/dns.c

----------------------------------------------------------------------------/

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@file Include internet checksum functions.\nThese are some reference implementations of the checksum algorithm, with the aim of being simple, correct and fully portable. Checksumming is the first thing you would want to optimize for your platform. If you create your own version, link it in and in your cc.h put: \define LWIP_CHKSUM your_checksum_routine Or you can select from the implementations below by defining LWIP_CHKSUM_ALGORITHM to 1, 2 or 3. / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT
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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/inet_chksum.c

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FILE: Common IPv4 and IPv6 code
GROUP: IP
INNER GROUP: callbackstyle_api
INNER GROUP: ip
INNER GROUP: IPv4
INNER GROUP: IPv6
INNER GROUP: ipaddr
IP address handling
INNER GROUP: infrastructure
INNER GROUP: ip4addr
IPv4 only
INNER GROUP: ip6addr
IPv6 only
INNER GROUP: ipaddr
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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ip.c

-------------------------------------------------------------------
Dynamic memory manager This is a lightweight replacement for the standard C library malloc(). If you want to use the standard C library malloc() instead, define MEM_LIBC_MALLOC to 1 in your lwipopts.h To let mem_malloc() use pools (prevents fragmentation and is much faster than a heap but might waste some memory), define MEM_USE_POOLS to 1, define MEMP_USE_CUSTOM_POOLS to 1 and create a file "lwippools.h" that includes a list of pools like this (more pools can be added between _START and _END): Define three pools with sizes 256, 512, and 1512 bytes LWIP_MALLOC_MEMPOOL_START LWIP_MALLOC_MEMPOOL(20, 256) LWIP_MALLOC_MEMPOOL(10, 512) LWIP_MALLOC_MEMPOOL(5, 1512) LWIP_MALLOC_MEMPOOL_END / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This file is part of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se> Simon Goldschmidt /

FILES:
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@file Dynamic pool memory manager lwIP has dedicated pools for many structures (netconn, protocol control blocks, packet buffers, ...). All these pools are managed here. @defgroup mempool Memory pools @ingroup infrastructure Custom memory pools / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This file is part of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se> /

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@brief lwIP network interface abstraction @defgroup netif Network interface (NETIF) @ingroup callbackstyle_api @defgroup netif_ip4 IPv4 address handling @ingroup netif @defgroup netif_ip6 IPv6 address handling @ingroup netif @defgroup netif_cd Client data handling Store data (void) on a netif for application usage. @see @ref LWIP_NUM_NETIF_CLIENT_DATA @ingroup netif / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or
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<adam@sics.se> /

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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/netif.c

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@file Packet buffer management / @defgroup pbuf Packet buffers (PBUF) @ingroup
infrastructure Packets are built from the pbuf data structure. It supports
dynamic memory allocation for packet contents or can reference externally
managed packet contents both in RAM and ROM. Quick allocation for incoming
packets is provided through pools with fixed sized pbufs. A packet may span over
multiple pbufs, chained as a singly linked list. This is called a "pbuf chain".
Multiple packets may be queued, also using this singly linked list. This is
called a "packet queue". So, a packet queue consists of one or more pbuf chains,
each of which consist of one or more pbufs. CURRENTLY, PACKET QUEUES ARE NOT
SUPPORTED!!! Use helper structs to queue multiple packets. The differences
between a pbuf chain and a packet queue are very precise but subtle. The last
pbuf of a packet has a ->tot_len field that equals the ->len field. It can be
found by traversing the list. If the last pbuf of a packet has a ->next field
other than NULL, more packets are on the queue. Therefore, looping through a
pbuf of a single packet, has an loop end condition (tot_len p->len), NOT (next
NULL). Example of custom pbuf usage for zero-copy RX: @code{.c}
typedef struct
my_custom_pbuf { struct pbuf_custom p; void dma_descriptor; } my_custom_pbuf_t;
LWIP_MEMPOOL_DECLARE(RX_POOL, 10, sizeof(my_custom_pbuf_t), "Zero-copy RX PBUF
pool"); void my_pbuf_free_custom(void p) { my_custom_pbuf_t my_puf
(my_custom_pbuf_t)p; LOCK_INTERRUPTS();
free_rx_dma_descriptor(my_pbuf->dma_descriptor); LWIP_MEMPOOL_FREE(RX_POOL,
my_pbuf); UNLOCK_INTERRUPTS(); } void eth_rx_irq() { dma_descriptor dma_desc
get_RX_DMA_descriptor_from_ethernet(); my_custom_pbuf_t my_pbuf
(my_custom_pbuf_t)LWIP_MEMPOOL_ALLOC(RX_POOL); my_pbuf->p.custom_free_function
Implementation of raw protocol PCBs for low-level handling of different types of protocols besides (or overriding) those already available in lwIP.

See also @ref raw_raw @defgroup raw_raw RAW @ingroup callbackstyle_api

Implementation of raw protocol PCBs for low-level handling of different types of protocols besides (or overriding) those already available in lwIP.

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@defgroup sys_layer Porting (system abstraction layer) @defgroup sys_os OS abstraction layer @defgroup sys_layer Porting (system abstraction layer) @ingroup lwip @verbinclude "sys_arch.txt" @defgroup sys_os OS abstraction layer @defgroup sys_layer No need to implement functions in this section in NO_SYS mode. @defgroup sys_sem
Semaphores @ingroup sys_os @defgroup sys_mutex Mutexes @ingroup sys_os Mutexes are recommended to correctly handle priority inversion, especially if you use LWIP_CORE_LOCKING. @defgroup sys_mbox Mailboxes @ingroup sys_os @defgroup sys_time Time @ingroup sys_layer @defgroup sys_prot Critical sections @ingroup sys_layer Used to protect short regions of code against concurrent access. - Your system is a bare-metal system (probably with an RTOS) and interrupts are under your control: Implement this as LockInterrupts() / UnlockInterrupts() - Your system uses an RTOS with deferred interrupt handling from a worker thread: Implement as a global mutex or lock/unlock scheduler - Your system uses a high-level OS with e.g. POSIX signals: Implement as a global mutex @defgroup sys_misc Misc @ingroup sys_os /

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@file Transmission Control Protocol for IP See also @ref tcp_raw @defgroup tcp_raw TCP @ingroup callbackstyle_api Transmission Control Protocol for IP
@see @ref raw_api and @ref netconn Common functions for the TCP implementation, such as functionos for manipulating the data structures and the TCP timer functions. TCP functions related to input and output is found in tcp_in.c and tcp_out.c respectively. / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This file is part of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se> /
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@file User Datagram Protocol module
The code for the User Datagram Protocol
UDP & UDPLite (RFC 3828).
See also @ref udp_raw @defgroup udp_raw UDP @ingroup
callbackstyle_api User Datagram Protocol module
@see @ref raw_api and @ref netconn
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stack. Author: Adam Dunkels <adam@sics.se> / @todo Check the use of `(struct
udp_pcb).chksum_len_rx' /

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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/udp.c
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@file AutoIP Automatic LinkLocal IP Configuration This is an AutoIP implementation for the lwIP TCP/IP stack. It aims to conform with RFC 3927.
@defgroup autoip AUTOIP @ingroup ip4 AUTOIP related functions USAGE: define @ref LWIP_AUTOIP 1 in your lwipopts.h Options: AUTOIP_TMR_INTERVAL msecs, I recommend a value of 100. The value must divide 1000 with a remainder almost 0. Possible values are 1000, 500, 333, 250, 200, 166, 142, 125, 111, 100 .... Without DHCP:
- Call autoip_start() after netif_add(). With DHCP:
  - define @ref LWIP_DHCP_AUTOIP_COOP 1 in your lwipopts.h.
  - Configure your DHCP Client. @see netifapi_autoip / Copyright (c) 2007 Dominik Spies <kontakt@dspies.de> All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. Author: Dominik Spies <kontakt@dspies.de> /

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@file Dynamic Host Configuration Protocol client @defgroup dhcp4 DHCPv4 @ingroup ip4 DHCP (IPv4) related functions This is a DHCP client for the lwIP TCP/IP stack. It aims to conform with RFC 2131 and RFC 2132. @todo: - Support for interfaces other than Ethernet (SLIP, PPP, ...) Options: @ref DHCP_COARSE_TIMER_SECS (recommended 60 which is a minute) @ref DHCP_FINE_TIMER_MSECS (recommended 500 which equals TCP coarse timer) dhcp_start() starts a DHCP client instance which configures the interface by obtaining an IP address lease and maintaining it. Use dhcp_release() to end the
lease and use dhcp_stop() to remove the DHCP client. @see netifapi_dhcp4 /
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@file IGMP - Internet Group Management Protocol @defgroup igmp IGMP @ingroup ip4
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@file Ethernet output for IPv6. Uses ND tables for link-layer addressing. /
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<kontakt@dspies.de> This is a AutoIP implementation for the lwIP TCP/IP stack.
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 3) Call slipif_received_byte[s]() from your serial RX ISR and slipif_process_rxqueue() from your main loop. ISR level decodes packets and puts completed packets on a queue which is fed into the stack from the main loop (needs SYS_LIGHTWEIGHT_PROT for pbuf_alloc to work on ISR level!). /

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status: Supported: - L2TPv2 (PPP over L2TP, a.k.a. UDP tunnels) - LAC Not
supported: - LNS (require PPP server support) - L2TPv3 ethernet pseudowires -
L2TPv3 VLAN pseudowire - L2TPv3 PPP pseudowires - L2TPv3 IP encapsulation -
L2TPv3 IP pseudowire - L2TP tunnel switching - http://tools.ietf.org/html/draft-
ietf-l2tpext-tunnel-switching-08 - Multiple tunnels per UDP socket, as well as
multiple sessions per tunnel - Hidden AVPs /

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ADvised OF THE POSSIBILITY OF SUCH DAMAGE. / FILE NAME hil.c COMPONENT OpenAMP
Stack. DESCRIPTION This file is implementation of generic part of HIL. /

FILES:
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/common/hil.c
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OF SUCH DAMAGE. / FILE NAME sh_mem.c COMPONENT OpenAMP stack. DESCRIPTION Source file for fixed buffer size memory management service. Currently it is only being used to manage shared memory. /

FILES:
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/common/sh_mem.c

FILES:
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/include/openamp/elf_loader.h
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/include/openamp/firmware.h
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/include/openamp/open_amp.h
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/include/openamp/rpmsg_core.h
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/include/openamp/rsc_table_parser.h
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/remoteproc/elf_loader.c
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/remoteproc/remoteproc_loader.c
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COMPONENT OpenAMP stack. DESCRIPTION This file provides definitions for
remoteproc loader /

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embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/include/openamp/remoteproc_loader.h
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FILE NAME: zynqmp_remoteproc_r5.c
DESCRIPTION: This file is the implementation of IPC hardware layer interface for Xilinx Zynq UltraScale+ MPSoC system.

FILES:
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/remoteproc/drivers/linux_remoteproc.c
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/remoteproc/drivers/zynqmp_remoteproc_r5.c

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PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / FILE NAME platform.c DESCRIPTION This file is the Implementation of IPC hardware layer interface for Xilinx Zynq ZC702EVK platform. /

FILES:
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/remoteproc/drivers/zynq_remoteproc_a9.c
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/remoteproc/drivers/zynqmp_remoteproc_a53.c

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FILES:
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/rmsg/remote_device.c

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FILE NAME: rpmsg.c
COMPONENT: OpenAMP stack
DESCRIPTION: Main file for the RPMSG driver. This file implements APIs as defined by RPMSG documentation (Linux docs) and also provides some utility functions. RPMSG driver represents each processor/core to which it communicates with remote_device control block. Each remote device(processor) defines its role in the communication i.e whether it is RPMSG Master or Remote. If the device(processor) to which driver is talking is RPMSG master then RPMSG driver implicitly behaves as Remote and vice versa. RPMSG Master is responsible for initiating communications with the Remote and shared buffers management. Terms remote device/core/proc are used interchangeably for the processor to which RPMSG driver is communicating irrespective of the fact whether it is RPMSG Remote or Master.

FILES:
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embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/rpmsg/rpmsg_core.c

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embeddedsw/XilinxProcessorIPLib/drivers/dprxss/examples/src/dats_dp14/ti_lmk03318.c
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Copyright (c) 2001-15 David Ireland, D.I. Management Services Pty Limited <http://www.di-mgt.com.au/bigdigits.html>. All rights reserved. END LICENSE BLOCK / Last updated: $Date: 2015-10-22 10:23:00 $ $Revision: 2.5.0 $ $Author: dai $ / Core code for BigDigits library "mp" functions /

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/hdcp22_common/src/bigdigits.c
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/hdcp_key_utility/bigdigits.c
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embeddedsw/XilinxProcessorIPLib/drivers/hdcp22_common/src/bigdtypes.h
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/hdcp_key_utility/bigdtypes.h
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ALL TIMES. @file xusb_cp9.c This file contains the USB Chapter 9 related
functions. @note None. <pre> MODIFICATION HISTORY: Ver Who Date Changes ----
---- 1.00a hvm 2/22/07 First release. 1.01a hvm 5/30/07 Moved the USB class
specific command processing to application files. 3.00a hvm 11/18/09 Updated to
use HAL processor APIs. XUsb_mReadReg is renamed to XUsb_ReadReg and
XUsb_mWriteReg is renamed to XUsb_WriteReg. 3.02a hvm 08/16/10 Updated with the
little endian support changes. 4.00a hvm 12/20/10 Updated SetInterface function
with microphone case support. </pre> / Include Files /
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embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_cp9.c
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@note None. <pre>
MODIFICATION HISTORY: Ver Who Date Changes ----- ---- 1.00a hvm 2/22/07 First release 1.01a hvm 5/30/07 Moved the USB class specific command processing to application files. 4.02a bss 4/5/12 Made changes so that the flag __LITTLE_ENDIAN__ gets defined when compiled with ARM CodeSourcery toolchain.
</pre>

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_cp9.h
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ALL TIMES. @file xusb_dma_intr_storage.c This file has the USB example Mass
storage device application function with SCSI command processing and related
response preparation being implemented as a part of the interrupt handler. @note
The example is tested on MicroBlaze system on SP605 board, with caches included
in the H/W design. <pre>
MODIFICATION HISTORY: Ver Who Date Changes ----- -----
1.00a hvm 2/22/07 First release. 4.00a hvm 06/01/11 Signature parameter of
Command Status word is initialized with 'U''S''B''S' in ProcessRxCmd function.
CR611761 fix. 4.01a bss 11/01/11 Modified UsbIfIntrHandler function to
unconditionally reset when USB reset is asserted (CR 627574). 4.03a bss 02/05/13
Updated the example to support Zynq

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_dma_intr_storage.c

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@note - The example is tested on ML403 and ML507 evaluation boards. The push buttons SW3,SW4,SW5 and SW7 on the ML403 evaluation board are used in the example for the key action of the USB keyboard. The push buttons SW10, SW11, SW12, SW13 and SW14 are used on the ML507 board. The example sends a character from a fixed sequence of characters from the device as and when any of the SW3 or SW4 or SW5 and SW7 push button is pressed. The fixed sequence of characters is XILINX USB KEYBOARD DEMO. The SW6 push button switch is used to complete the test. SW14 is used on ML507 board to complete the test. - The GPIO device has to be added to the hardware design so that the push buttons on the evaluation board could be used. If we enable the debug statements in the xusb_cp9.c file, we must add the UARTLite core to the hardware design. Debug messages can be enabled by defining the constant XUSB_DEBUG. - To run this example, the evaluation board is to be connected to a windows Host PC over the USB port. - The example configures the USB device for endpoint 0 and endpoint 1. Endpoint 0 is the control endpoint and is configured for a maximum packet length of 64 bytes. End point 1 is configured for INTERRUPT IN transactions and the maximum packet size is configured as 16 bytes. - The USB keyboard example code has to be compiled along with the xusb_cp9.c file. The xusb_cp9.c file contains all the USB enumeration related functions. To compile the code for USB keyboard example, the constant definitions HID_DEVICES and USB_KEYBOARD are to be defined and the definitions the constants USB_MOUSE and MASS_STORAGE_DEVICE are to be undefined. These definitions can be found in the xusb_types.h file. <pre> MODIFICATION HISTORY: Ver Who Date Changes ----- ---- 1.00a hvm 5/31/07 First release 3.00a hvm 11/18/09 Updated to use HAL processor APIs. XUsb_mReadReg is renamed to XUsb_ReadReg and XUsb_mWriteReg is renamed to XUsb_WriteReg. 4.00a hvm 08/11/11 Updated the code in gpio isr to increment the index by 4 as a dummy byte is added in the Message variable in keyboard.h file to handle the address alignment issue. 4.02a bss 11/01/11 Modified UsbIfIntrHandler function to unconditionally reset when USB reset is asserted (CR 627574). </pre> / Include Files /

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_keyboard.c

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This file contains the constants, type definitions, variables and function prototypes used in the USB keyboard example.

Ver	Who	Date	Changes
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1.00a	hvm	5/31/07	First release
3.02a	hvm	08/16/10	Updated with the little endian support changes.
4.00a	hvm	08/11/11	Updated the Message[] variable data to handle the address alignment issue.
4.02a	bss	11/01/11	Number of endpoints changed from 0x00 to 0x01 in FsUsbConfig to support Full Speed (CR 627573).

FILES:
EmbeddedSw/XilinxProcessorIPLib/drivers/usb/examples/xusb_keyboard.h
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endpoint 1. Endpoint 0 is the control endpoint and is configured for a maximum packet length of 64 bytes. Endpoint 1 is configured for INTERRUPT IN transactions and the maximum packet size is configured as 16 bytes. - The USB mouse example code has to be compiled along with the xusb_cp9.c file. The xusb_cp9.c file contains all the USB enumeration related functions. To compile the code for USB mouse example, the constant definitions HID_DEVICES and USB_MOUSE are to be defined and the definitions the constants USB_KEYBORD and MASS_STORAGE DEVICE are to be undefined. These definitions can be found in the xusb_types.h file. <pre> MODIFICATION HISTORY: Ver Who Date Changes ----- ---- 1.00a hvm 6/21/07 First release 3.00a hvm 11/18/09 Updated to use HAL processor APIs. XUsb_mReadReg is renamed to XUsb_ReadReg and XUsb_mWriteReg is renamed to XUsb_WriteReg. 4.02a bss 11/01/11 Modified UsbIfIntrHandler function to unconditionally reset when USB reset is asserted (CR 627574). </pre> / Include Files /

FILES:
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@file xusb_mouse.h This file contains the constants, type definitions, variables and function prototypes used in the mouse application.

@note None. <pre> MODIFICATION HISTORY: Ver Who Date Changes ----- ---- 1.00a hvm 3/30/07 First release 3.02a hvm 08/16/10 Updated with the little endian support changes. </pre>

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_mouse.h

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This file contains mass storage device application related functions. The example is tested on MicroBlaze, PPC405 and 440 systems with caches included in the H/W design and also with systems not having caches.

Modification History:
Ver Who Date Changes
1.00a hvm 2/22/07 First release
1.01a hvm 5/30/07 Added code to handle endpoint zero class specific commands. Added support for PPC.
1.01a hvm 10/2/08 The complete SCSI READ command processing implementation is modified. The send processing is shifted into the endpoint one interrupt handler. Updated the code to enable caches.
2.00a hvm 12/08/08 Updated the example with cache APIs
3.00a hvm 03/12/09 Updated the example with DMA Done check for every transaction initiated.
3.00a hvm 11/18/09 Updated to use HAL processor APIs. XUsb_mReadReg is renamed to XUsb_ReadReg and XUsb_mWriteReg is renamed to XUsb_WriteReg.
3.02a hvm 08/16/10 Updated with the little endian support changes.
4.00a hvm 06/01/11 Signature parameter of Command Status word is initialized with 'U'S'B'S' in ProcessRxCmd function.
4.00a hvm 24/06/11 The cache flush call with 512 size in EP1 handler is moved inside the HIGHSPEED condition.
4.02a bss 11/01/11 Modified UsbIfIntrHandler function to unconditionally reset when USB reset is asserted (CR 627574).
5.2 MNK 03/30/2016 Modified the example to support ZYNQMP.

Files:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_storage.c

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ALL TIMES. @file xusb_types.h This file contains the constants, type
definitions, variables as used in the USB chapter 9 and mass storage demo
application. @note None. <pre> MODIFICATION HISTORY: Ver Who Date Changes -----
1.00a hvm 2/22/07 First release 4.00a hvm 12/20/10 Updated with the Audio
device definitions. </pre> /

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_types.h
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@file xusb.h @addtogroup usb_v5_2 @{
@details This file contains the implementation of the XUsb component. It is the driver for the USB device controller. The USB device controller supports the following features:
- USB 2.0 Specification supporting High/Full/Low Speed
- 8 Endpoints
- 1 Control Endpoint
- 7 Configurable Endpoints, which can be configured as IN or OUT, and configurable as Interrupt or Bulk or Isochronous
- 2 Ping Pong Buffers for all the endpoints except the Control Endpoint
<b>Initialization & Configuration</b>
The device driver enables higher layer software (e.g., an application) to communicate to the USB device. Apart from transmission and reception of USB frames the driver also handles the configuration of the device. A single device driver can support multiple USB devices. XUsb_CfgInitialize() API is used to initialize the USB device. The user needs to first call the XUsb_LookupConfig() API which returns the Configuration structure pointer which is passed as a parameter to the XUsb_CfgInitialize() API.
- Configuration of the DEVICE endpoints: The endpoints of the device need to be configured using the XUsb_EpConfigure() function call. After configuration is complete, the endpoints need to be initialized using the XUsb_EpInitializeAll() function call.
<b>PHY Communication</b>
As the H/W doesn't give any provision for the driver to configure the PHY, the driver doesn't provide any mechanism for directly programming the PHY.
- DMA
The USB device has an inbuilt DMA. It's a simple DMA for data transfer between endpoint buffer memory and the external memory. The driver has two APIs for DMA operation. one API is used for resetting the DMA module of the USB device. The other API is for initiating the DMA transfer. The DMA transfer API is internal to the driver and is used by the USB endpoint data send and data receive functions. Upon completion of DMA transfer the USB device sets the buffer ready bit of the endpoint for which the DMA transfer is initiated. Setting of the buffer ready bit enables transmission/reception of an endpoint data. To enable the USB device to know to
which endpoint the current DMA transfer is initiated, the driver writes the
buffer ready mask to the DMA control register. The DMA in the device can be
enabled or disabled only during the system build time. <b>Interrupts</b> The
driver provides an interrupt handler XUsb_IntrHandler for handling the interrupt
from the USB device. The users of this driver have to register this handler with
the interrupt system and provide the callback functions. The interrupt handlers
and associated callback functions for the USB device have to be registered by
the user using the XUsb_IntrSetHandler() function and/or XUsb_EpSetHandler()
function. XUsb_IntrSetHandler() function installs an asynchronous callback
function for the general interrupts (interrupts other than the endpoint
interrupts). XUsb_EpSetHandler() function installs the callback functions for the
interrupts related to the endpoint events. A separate callback function has
to be installed for each of the endpoints. <b>Interrupts</b> The
driver supports Virtual Memory. The RTOS is responsible for calculating the correct
device base address in Virtual Memory space. <b>Threads</b> This driver is not
thread safe. Any needs for threads or thread mutual exclusion must be satisfied
by the layer above this driver. <b>Asserts</b> Asserts are used within all
Xilinx drivers to enforce constraints on argument values. Asserts can be turned
off on a system-wide basis by defining, at compile time, the NDEBUG identifier.
By default, asserts are turned on and it is recommended that users leave asserts
on during development. <b>Building the driver</b> The XUsb driver is composed
of several source files. This allows the user to build and link only those parts
of the driver that are necessary. <p>MODIFICATION HISTORY: Ver Who Date
Changes ----- ---- -------- 1.00a hvm 02/22/07 First release. 1.01a hvm 05/30/07
The chapter 9 files are moved to examples directory. 1.01a sdm 08/22/08 Removed
support for static interrupt handlers from the MDD file 1.01a hvm 10/02/08 The
Buffer0Ready, Buffer1Ready are declared as volatile. In function
XUsb_EpDataRecv, the initialization of Buffer0Ready, Buffer1Ready and CurBufNum
variables is moved before the buffer ready bit is set in the buffer ready
register. Added the initialization of Buffer0Ready, Buffer1Ready and CurBufNum
variables in the XUsb_EpDataSecd function. 2.00a hvm 10/22/08 Added Support for
the new XPS USB device. The new device has support for DMA. Apart from the DMA,
remote wakeup feature is also added the USB device. However, there is no
additional code needed to be added in the driver to support this feature. 3.00a
hvm 12/03/09 Added the modifications related to the new USB error reporting
register in the XPS USB device. Updated to use HAL processor APIs. Removed _m
from the name of the macros. XUsb_mReadReg is renamed to XUsb_ReadReg and
XUsb_mWriteReg is renamed to XUsb_WriteReg. 3.01a hvm 5/20/10 Updated with fix
for CR561171. The interrupt handler is updated to call the error handler callback
function during error interrupts. 3.02a hvm 7/15/10 Added Device ID
initialization in XUsb_CfgInitialize function (CR555996). 3.02a hvm 8/5/10
Updated the XUsb_EpDataRecv function to ensure that the buffer ready bit setup
is now made only during non-DMA case. CR570776. 3.02a hvm 8/16/10 Updated the
examples with the little endian support. 4.00a hvm 10/21/10 Added new API
XUsb_DmaIntrSetHandler for setting up DMA handler. Updated the XUsb_IntrHandler
function to call the DMA handler to handle DMA events. Removed DmaDone and
DmaError variables from the XUsb structure. Added two new APIs to provide access
to the new ULPI PHY register. 4.01a hvm 8/23/11 Added new bit definitions for
isochronous transfer bits in endpoint configuration register. Added a new API for setting these bits for a given endpoint. These bits are available only in the newer versions of the AXI USB IP. Check the IP datasheet for more details.

4.02a bss 3/04/12 Modified XCOMPONENT_IS_READY to XIL_COMPONENT_IS_READY CR 650877 4.03a bss 06/20/10 Added SIE Reset API to reset (XUsb_SieReset) the SIE state machine in xusb.c and SIE Reset Mask in xusb_l.h for CR 660602

4.04a bss 10/22/13 Added macros for HSIC PHY registers in xusb_l.h. 5.0 adk 19/12/13 Updated as per the New Tcl API's 5.1 sk 11/10/15 Used UINTPTR instead of u32 for Baseaddress CR 867425. Changed the prototype of XUsb_CfgInitialize API. 5.2 MNK 29/03/15 Added 64bit changes for ZYNQMP. ms 03/17/17 Modified text file in examples folder for doxygen generation. 

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/src/xusb.h

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MODIFICATION HISTORY: Ver Who Date Changes ----- ---- 1.00a hvm 2/22/07 First release 1.01a hvm 10/2/08 In function XUsb_EpDataRecv, the initialization of Buffer0Ready, Buffer1Ready and CurBufNum variables is moved before the buffer ready bit is set in the buffer ready register. Added the initialization of Buffer0Ready, Buffer1Ready and CurBufNum variables in the XUsb_EpDataSend function. 2.00a hvm 12/2/08 Updated the XUsb_EpDataSend and XUsb_EpRecv functions to provide support for DMA and non DMA modes of data transfer. 3.00a hvm 11/18/09 Updated to use HAL processor APIs. Removed _m from the name of the macros. 3.02a hvm 8/5/10 Updated the XUsb_EpDataRecv function to ensure that the buffer ready bit setup is now made only during non-DMA case. CR570776. 4.01a hvm 8/23/11 Added an API to set the number of isochronous transfers in a microframe for a given endpoint.

</pre>

/ Include Files /

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/src/xusb_endpoint.c

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ALL TIMES. @file xusb_g.c @addtogroup usb_v5_2 @{ This file contains a
configuration table that specifies the configuration of the USB devices in the
system. @note None. <pre> MODIFICATION HISTORY: Ver Who Date Changes ----- -----
-------- 1.00a hvm 2/22/07 First release 2.00a hvm 12/2/08 Updated the
configuration structure with the INCLUDE_DMA option. </pre> Include Files /
FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/src/xusb_g.c
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ALL TIMES. @file xusb_intr.c @addtogroup usb_v5_2 @{ This file contains the
functions that are related to interrupt processing for the USB device. <pre>
MODIFICATION HISTORY: Ver Who Date Changes ----- ---- 1.00a hvm 2/22/07 First
release. 2.00a hvm 12/2/08 Updated the interrupt handler for handling the new
DMA bits defined in the interrupt status register. 3.00a hvm 12/3/09 Updated to
use HAL processor APIs. Removed _m from the Added the interrupt handling for
the error interrupts. Added new API XUsb_ErrIntrSetHandler for setting up error
handler. 3.01a hvm 5/20/10 Updated with fix for CR561171. The interrupt handler
is updated to call the error handler callback function during error interrupts.
4.00a hvm 9/01/10 Added new API XUsb_DmaIntrSetHandler for setting up DMA
handler. Updated the XUsb_IntrHandler function to call the DMA handler to handle
DMA events. Removed the DmaDone and DmaError variable usage from the
XUsb_IntrHandler function. Added interrupt handling for ULPI PHY interrupts.
4.02a bss 3/04/12 Modified XCOMPONENT_IS_READY to XIL_COMPONENT_IS_READY CR
650877 </pre> / Include Files /

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/src/xusb_intr.c

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MODIFICATION HISTORY: Ver Who Date Changes ----- ------------
1.00a hvm 2/22/07 First release 2.00a hvm 12/2/08 Updated the register offset
values as per the new USB device datasheet. Added new bitmasks related to DMA
operation as defined in the datasheet. 3.00a hvm 10/28/09 Updated the new USB
error register related constants 3.00a hvm 11/18/09 Updated to use HAL-processor
APIs. XUsb_mReadReg is renamed to XUsb_ReadReg and XUsb_mWriteReg is renamed to
XUsb_WriteReg. Updated the new USB error register related constants. 4.00a hvm
10/21/10 Updated the ULPI PHY and interrupt register related constants. 4.01a
hvm 08/23/11 Updated with High bandwidth Isochronous bit definitions 4.03a bss
06/20/10 Added SIE Reset Mask (CR 660602) 4.04a bss 10/22/13 Added macros for
HSIC PHY registers. </pre>

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/src/xusb_l.h
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FILES:
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embeddedsw/XilinxProcessorIPLib/drivers/i2stx/data/i2stx.tcl
embeddedsw/XilinxProcessorIPLib/drivers/SDIaud/data/SDIaud.tcl
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/data/v_hdmirxss.mdd
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/data/v_hdmirxss.tcl
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FILES:
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embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmi_example/aes256.h
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmi_example/aes256.c
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmi_example/aes256.h
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/hdcp_key_utility/aes256.h
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmi_example/aes256.c
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmi_example/aes256.h
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Filename: sha256.c Author: Brad Conte (brad AT bradconte.com) Copyright:
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Implementation of the SHA-256 hashing algorithm. SHA-256 is one of the three
algorithms in the SHA2 specification. The others, SHA-384 and SHA-512, are not
offered in this implementation. Algorithm specification can be found here:
This implementation uses little endian byte order. HEADER FILES /

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmi_example/sha256.c
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmi_example/sha256.c
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Filename: sha256.h Author: Brad Conte (brad AT bradconte.com) Copyright:
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Defines the API for the corresponding SHA1 implementation.
FILES:
embrdedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmi_example/sha256.h
eMBEDDEDSW/XILINXPROCESSORIPLIB/DRIVERS/V_HDMIXXS/EXAMPLES/XHDMI_EXAMPLE/SHA256.H
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X.XX XX YY/MM/DD 1.00 RHe 16/06/20 Initial release. A ported
version from the 8T49N28X-FrequencyProgrammingGuide register-calculations.py
script 2.00 MG 16/08/15 Major update 2.10 MG 16/09/05 Added LOS variable 2.20 GM
18/02/08 Converted math.h functions (e.g. ceil) to standard functions </pre>
Include Files /
FILES:
embrdedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmi_example/idt_8t49n24x.c
eMBEDDEDSW/XILINXPROCESSORIPLIB/DRIVERS/V_HDMIXXS/EXAMPLES/XHDMI_EXAMPLE/IDT_8T49N24X.C
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X.XX XX YY/MM/DD 1.00 RHe 16/06/20 Initial release. A ported
version from the 8T49N28X-FrequencyProgrammingGuide register-calculations.py
script 2.00 MG 16/08/15 Major update 2.10 MG 16/09/05 Added LOS variable 2.20 GM
18/02/08 Converted math.h functions (e.g. ceil) to standard functions </pre>
FILES:
embrdedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmi_example/idt_8t49n24x.h
eMBEDDEDSW/XILINXPROCESSORIPLIB/DRIVERS/V_HDMIXXS/EXAMPLES/XHDMI_EXAMPLE/IDT_8T49N24X.H
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xvidc_parse_edid.c <pre> MODIFICATION HISTORY: Ver Who Date Changes ----- ---
---------- 1.00 mmo 24-01-2017 Included into video_common 1.01 eb 13-04-2018
Fixed XV_VidC_parse_edid API and xvidc_edid_extension_handler struct to enhance
system stability </pre> /

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/video_common/src/xvidc_parse_edid.c

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- embeddedsw/XilinxProcessorIPLib/drivers/sdiaud/src/xsdiaud_g.c
- embeddedsw/XilinxProcessorIPLib/drivers/spdif/src/xspdif_g.c
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sec_init Initialization and Configuration The XSdFec_Config structure is used by the driver to configure the FEC mode and interface parameters defined for each SD-FEC device. The configuration structure is created by the tool-chain based on HW build properties. To support multiple runtime loading and initialization strategies employed by various operating systems, the driver instance can be initialized in one of two ways: - XSdFecInitialize(InstancePtr, DeviceId) - The driver looks up its own configuration structure created by the tool-chain based on an ID provided by the tool-chain. - XSdFecCfgInitialize(InstancePtr, CfgPtr) - Uses a configuration structure provided by the caller.

Data Structures One or more device specific headers are produced during the generation of the board support package, defining further device specific configuration parameters: - When the device is configured for Turbo Decode, the header x<ipinst_name>_turbo_params.h, contains an XSdFecturbo_parameters structure which is populated to match the corresponding IP GUI configuration. - When the device is configured for LDPC a header is generated per LDPC code specified on the corresponding IP GUI; x<ipinst_name>_<code_id>_params.h. Each header defines an XSdFecldpc_parameters structure populated with the configuration data required for the corresponding LDPC code.

API The driver provides the following functions: - XSdFecSetTurboParams(InstancePtr, ParamsPtr) - Set Turbo parameters on a device - XSdFecadd_ldpc_params(InstancePtr, CodecId, SCOffset, LAOffset, QCOffset, ParamsPtr) - Add LDPC parameters to a device - XSdFecShareTableSize(ParamsPtr, SCSizePtr, LASizePtr, QCSizePtr) - Calculate share table size for a LDPC code - XSdFecInterruptClassifier(InstancePtr) - Classify interrupts In addition, the driver provides set and get functions for all the individual registers defined for the SD-FEC.

Example The processor based example design output by the SD-FEC IP instance also includes an example application demonstrating a basic use case of the software driver.

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Changes: Date: Mar 2006
Environment: Xen
Minimal OS
Description: Console interface. Defines printk. Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions: The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. / Copyright DornerWorks 2016 Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. THIS
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first page of each file where they apply. / print -- do a raw print of a string
/

FILES:
embeddedsw/lib/bsp/standalone/src/common/print.c
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embeddedsw/lib/sw_apps/ddr_self_refresh/src/main.c

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ipi_latency_demod.c This is the remote side of the IPI latency measurement demo. This demo does the following steps: 1. Open the shared memory device. 1. Open the TTC timer device. 2. Open the IPI device. 3. Register IPI interrupt handler. 6. When it receives IPI interrupt, the IPI interrupt handler to stop the RPU to APU TTC counter. 7. Check the shared memory to see if demo is on. If the demo is on, reest the RPU to APU TTC counter and kick IPI to notify the remote. 8. If the shared memory indicates the demo is off, cleanup resource: disable IPI interrupt and deregister the IPI interrupt handler.

FILES:
embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/freertos/zynqmp_r5/zynqmp_amp_demo/ipi_latency_demod.c
embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/generic/zynqmp_r5/zynqmp_amp_demo/ipi_latency_demod.c

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This demo will: 1. Get the shared memory device I/O region. 2. Get the IPI device I/O region. 3. Register IPI interrupt handler. 4. Wait for remote IPI notification to receive message. 5. When message is received, check if it is shutdown message. 6. If it is shutdown message, do cleanup, otherwise, echo it back to the shared buffer. 7. Kick IPI to notify there is a message written to the shared memory if it echos back the message. 8. Repeat 4. 9. Clean up: disable IPI interrupt, deregister the IPI interrupt handler. Here is the Shared memory structure of this demo:

| 0x0 - 0x03 | number of APU to RPU buffers available to RPU |
| 0x04 - 0x07 | number of APU to RPU buffers consumed by RPU |
| 0x08 - 0x1FFC | address array for shared buffers from APU to RPU |
| 0x2000 - 0x2003 | number of RPU to APU buffers available to APU |
| 0x2004 - 0x2007 | number of RPU to APU buffers consumed by APU |
| 0x2008 - 0x3FFC | address array for shared buffers from RPU to APU |
| 0x10400 - 0x203FFC | RPU to APU buffers |

FILES:
embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/freertos/zynqmp_r5/zynqmp_amp_demo/ipi_shmem_demo.c
embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/generic/zynqmp_r5/zynqmp_amp_demo/ipi_shmem_demo.c

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remote side of the IPI latency measurement demo. This demo does the following steps: 1. Get the shared memory device libmetal I/O region. 1. Get the TTC timer device libmetal I/O region. 2. Get IPI device libmetal I/O region and the IPI interrupt vector. 3. Register IPI interrupt handler. 6. When it receives IPI interrupt, the IPI interrupt handler marked the remote has kicked. 7. Check the shared memory to see if demo is on. If the demo is on, copy data from the shared memory to local memory, stop the APU to RPU timer. Reset the RPU to APU TTC counter, copy data from local memory to shared memory, kick IPI to notify the remote. 8. If the shared memory indicates the demo is off, cleanup resource: disable IPI interrupt and deregister the IPI interrupt handler. /

FILES:
embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/freertos/zynqmp_r5/zynqmp_amp_demo/shmem_latency_demod.c
embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/generic/zynqmp_r5/zynqmp_amp_demo/shmem_latency_demod.c

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/ shmem_throughput_demo_task.c This is the remote side of the shared memory throughput demo. This demo does the following steps: 1. Get the shared memory device libmetal I/O region. 1. Get the TTC timer device libmetal I/O region. 2. Get IPI device libmetal I/O region and the IPI interrupt vector. 3. Register IPI interrupt handler. 6. Download throughput measurement: Start TTC RPU counter, wait for IPI kick, check if data is available, if yes, read as much data as possible from shared memory. It will iterates untill 1000 packages have been received, stop TTC RPU counter and kick IPI to notify the remote. Repeat for different package size. 7. Upload throughput measurement: Start TTC RPU counter, write data to shared memory and kick IPI to notify remote. It will iterate for 1000 times, stop TTC RPU counter. wait for APU IPI kick to know APU has finished receiving packages. Kick IPI to notify it TTC RPU counter value is ready to read. Repeat for different package size. 8. Cleanup resource: disable IPI interrupt and deregister the IPI interrupt handler. Here is the Shared memory structure of this demo:

| 0x0 - 0x03 | number of APU to RPU buffers available to RPU |
| 0x04 - 0xFFFFF | address array for shared buffers from APU to RPU |
| 0x200000 - 0x200004 | number of RPU to APU buffers available to APU |
| 0x200004 - 0x3FFFFF | address array for shared buffers from RPU to APU |
| 0x800000 - 0xAFFFFF | RPU to APU buffers |

FILES:

embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/freertos/zynqmp_r5/zynqmp_amp_demo/shmem_throughput_demod.c
embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/generic/zynqmp_r5/zynqmp_amp_demo/shmem_throughput_demod.c

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FILES:
embeddedsw/lib/sw_apps/zynqmp_dram_test/src/gdma_ch0.h
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FILES:
embeddedsw/lib/sw_apps/zynqmp_dram_test/src/memtest.c

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DESCRIPTION This file define platform specific data and implements APIs to set platform specific information for OpenAMP.

FILES:
- embeddedsw/lib/sw_apps/openamp_echo_test/src/machine/zynq7/platform_info.c
- embeddedsw/lib/sw_apps/openamp_echo_test/src/machine/zynqmp_r5/platform_info.c
- embeddedsw/lib/sw_apps/openamp_matrix_multiply/src/machine/zynq7/platform_info.c
- embeddedsw/lib/sw_apps/openamp_matrix_multiply/src/machine/zynqmp_r5/platform_info.c
- embeddedsw/lib/sw_apps/openamp_rpc_demo/src/machine/zynq7/platform_info.c
- embeddedsw/lib/sw_apps/openamp_rpc_demo/src/machine/zynqmp_r5/platform_info.c

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FILES:
- embeddedsw/lib/sw_apps/openamp_echo_test/src/machine/zynq7/rsc_table.c
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This is a sample demonstration application that showcases usage of rpmsg. This application is meant to run on the remote CPU running FreeRTOS code. It echoes back data that was sent to it by the master core. The application calls init_system which defines a shared memory region in MPU settings for the communication between master and remote using zynqMP_r5_map_mem_region API, it also initializes interrupt controller GIC and register the interrupt service routine for IPI using zynqMP_r5_gic_initialize API. Echo test calls the remoteproc_resource_init API to create the virtio/RPMsg devices required for IPC with the master context. Invocation of this API causes
remoteproc on the FreeRTOS to use the rpmsg name service announcement feature to advertise the rpmsg channels served by the application. The master receives the advertisement messages and performs the following tasks: 1. Invokes the channel created callback registered by the master application 2. Responds to remote context with a name service acknowledgement message After the acknowledgement is received from master, remoteproc on the FreeRTOS invokes the RPMsg channel-created callback registered by the remote application. The RPMsg channel is established at this point. All RPMsg APIs can be used subsequently on both sides for run time communications between the master and remote software contexts. Upon running the master application to send data to remote core, master will generate the payload and send to remote (FreeRTOS) by informing the FreeRTOS with an IPI, the remote will send the data back by master and master will perform a check whether the same data is received. Once the application is ran and task by the FreeRTOS application is done, master needs to properly shut down the remote processor To shut down the remote processor, the following steps are performed: 1. The master application sends an application-specific shut-down message to the remote context 2. This FreeRTOS application cleans up application resources, sends a shut-down acknowledge to master, and invokes remoteproc_resource_deinit API to de-initialize remoteproc on the FreeRTOS side. 3. On receiving the shut-down acknowledge message, the master application invokes the remoteproc_shutdown API to shut down the remote processor and de-initialize remoteproc using remoteproc_deinit on its side.

FILES:
embeddedsw/lib/sw_apps/openamp_echo_test/src/system/freertos/echo_test.c
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application that showcases usage of rpmsg This application is meant to run on the remote CPU running bare-metal code. It echoes back data that was sent to it by the master core. The application calls init_system which defines a shared memory region in MPU settings for the communication between master and remote using zynqMP_r5_map_mem_region API, it also initializes interrupt controller GIC and register the interrupt service routine for IPI using zynqMP_r5_gic_initialize API. Echo test calls the remoteproc_resource_init API to create the virtio/RPMsg devices required for IPC with the master context. Invocation of this API causes remoteproc on the bare-metal to use the rpmsg name service announcement feature to advertise the rpmsg channels served by the application. The master receives the advertisement messages and performs the following tasks: 1. Invokes the channel created callback registered by the master application 2. Responds to remote context with a name service acknowledgement message After the acknowledgement is received from master, remoteproc on the bare-metal invokes the RPMsg channel-created callback registered by the remote application. The RPMsg channel is established at this point. All RPMsg APIs can be used subsequently on both sides for run time communications between the master and remote software contexts. Upon running the master application to send data to remote core, master will generate the payload and send to remote (bare-metal) by informing the bare-metal with an IPI, the remote will send the data back by master and master will perform a check whether the same data is received. Once the application is ran and task by the bare-metal application is done, master needs to properly shut down the remote processor To shut down the remote processor, the following steps are performed: 1. The master application sends an application-specific shut-down message to the remote context 2. This bare-metal application cleans up application resources, sends a shut-down acknowledge to master, and invokes remoteproc_resource_deinit API to de-initialize remoteproc on the bare-metal side. 3. On receiving the shut-down acknowledge message, the master application invokes the remoteproc_shutdown API to shut down the remote processor and de-initialize remoteproc using remoteproc_deinit on its side.

FILES:
embeddedsw/lib/sw_apps/openamp_echo_test/src/system/generic/echo_test.c

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This is a sample demonstration application that showcases usage of remoteproc and rpmsg APIs on the remote core. This application is meant to run on the remote CPU running FreeRTOS code. It receives two matrices from the master, multiplies them and returns the result to the master core. The init_system is called in the main function which defines a shared memory region in MPU settings for the communication between master and remote using zynqMP_r5_map_mem_region API, it also initializes interrupt controller GIC and register the interrupt service routine for IPI using zynqMP_r5_gic_initialize API. The remoteproc_resource_init API is being called to create the virtio/RPMsg devices required for IPC with the master context. Invocation of this API causes remoteproc on the FreeRTOS to use the rpmsg name service announcement feature to advertise the rpmsg channels served by the application. The master receives the advertisement messages and performs the following tasks: 1. Invokes the channel created callback registered by the master application 2. Responds to remote context with a name service acknowledgement message. After the acknowledgement is received from master, remoteproc on the FreeRTOS invokes the RPMsg channel-created callback registered by the remote application. The RPMsg channel is established at this point. All RPMsg APIs can be used subsequently on both sides for runtime communications between the master and remote software contexts. Upon running the master application to send data to remote core, master will generate the matrices and send to remote (FreeRTOS) by informing the FreeRTOS with an IPI, the remote will compute the resulting matrix and send the data back to master. Once the application is run and task by the FreeRTOS application is done, master needs to properly shut down the remote processor. To shut down the remote processor, the following steps are performed: 1. The master application sends an application-specific shutdown message to the remote context 2. This FreeRTOS application cleans up application resources, sends a shutdown acknowledge to master, and
invokes remoteproc_resource_deinit API to de-initialize remoteproc on the FreeRTOS side. 3. On receiving the shutdown acknowledge message, the master application invokes the remoteproc_shutdown API to shut down the remote processor and de-initialize remoteproc using remoteproc_deinit on its side.

FILES:
embeddedsw/lib/sw_apps/openamp_matrix_multiply/src/system/freertos/matrix_multiply.c

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the following tasks: 1. Invokes the channel created callback registered by the master application. 2. Responds to remote context with a name service acknowledgement message. After the acknowledgement is received from master, remoteproc on the bare-metal invokes the RPMsg channel-created callback registered by the remote application. The RPMsg channel is established at this point. All RPMsg APIs can be used subsequently on both sides for run time communications between the master and remote software contexts. Upon running the master application to send data to remote core, master will generate the matrices and send to remote (bare-metal) by informing the bare-metal with an IPI, the remote will compute the resulting matrix and send the data back to master. Once the application is ran and task by the bare-metal application is done, master needs to properly shut down the remote processor. To shut down the remote processor, the following steps are performed: 1. The master application sends an application-specific shutdown message to the remote context. 2. This bare-metal application cleans up application resources, sends a shutdown acknowledge to master, and invokes remoteproc_resource_deinit API to de-initialize remoteproc on the bare-metal side. 3. On receiving the shutdown acknowledge message, the master application invokes the remoteproc_shutdown API to shut down the remote processor and de-initialize remoteproc using remoteproc_deinit on its side.

FILES:
embeddedsw/lib/sw_apps/openamp_matrix_multiply/src/system/generic/matrix_multiply.c

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This is a sample demonstration application that showcases usage of proxy from the remote core. This application is meant to run on the remote CPU running FreeRTOS. It can print to master console and perform file I/O using proxy mechanism. The init_system is called from main function which defines a shared memory region in MPU settings for the communication between master and remote using zynqMP_r5_map_mem_region API, it also initializes interrupt controller GIC and register the interrupt service routine for IPI using zynqMP_r5_gicInitialize API. The remoteproc_resource_init API is being called to create the virtio/RPMsg devices required for IPC with the master context. Invocation of this API causes remoteproc on the FreeRTOS to use the rpmsg name service announcement feature to advertise the rpmsg channels served by the application. The master receives the advertisement messages and performs the following tasks: 1. Invokes the channel created callback registered by the master application 2. Responds to remote context with a name service acknowledgement message After the acknowledgement is received from master, remoteproc on the FreeRTOS invokes the RPMsg channel-created callback registered by the remote application. The RPMsg channel is established at this point. All RPMsg APIs can be used subsequently on both sides for run time communications between the master and remote software contexts. Upon running the master application, this application will use the console to display print statements and execute file I/O on master by communicating with a proxy application running on the Linux master. Once the application is run and task by the FreeRTOS application is done, master needs to properly shut down the remote processor To shut down the remote processor, the following steps are performed: 1. The master application sends an application-specific shutdown message to the remote context 2. This FreeRTOS application cleans up application resources, sends a shutdown acknowledge to master, and invokes remoteproc_resource_deinit API to de-initialize remoteproc on the FreeRTOS side. 3. On receiving the shutdown acknowledge message, the master application invokes the remoteproc_shutdown API to shut down the remote processor and de-initialize remoteproc using remoteproc_deinit on its side.

FILES:
embeddedsw/lib/sw_apps/openamp_rpc_demo/src/system/freertos/rpc_demo.c

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This is a sample demonstration application that showcases usage of proxy from the remote core. This application is meant to run on the remote CPU running bare-metal. It can print to master console and perform file I/O using proxy mechanism. The init_system is called from main function which defines a shared memory region in MPU settings for the communication between master and remote using zynqMP_r5_map_mem_region API, it also initializes interrupt controller GIC and register the interrupt service routine for IPI using zynqMP_r5_gic_initialize API. The remoteproc_resource_init API is being called to create the virtio/RPMsg devices required for IPC with the master context. Invocation of this API causes remoteproc on the bare-metal to use the rpmmsg name service announcement feature to advertise the rpmmsg channels served by the application. The master receives the advertisement messages and performs the following tasks: 1. Invokes the channel created callback registered by the master application 2. Responds to remote context with a name service acknowledgement message After the acknowledgement is received from master, remoteproc on the bare-metal invokes the RPMsg channel-created callback registered by the remote application. The RPMsg channel is established at this point. All RPMsg APIs can be used subsequently on both sides for run time communications between the master and remote software contexts. Upon running the master application, this application will use the console to display print statements and execute file I/O on master by communicating with a proxy application running on the Linux master. Once the application is ran and task by the bare-metal application is done, master needs to properly shut down the remote processor. To shut down the remote processor, the following steps are performed: 1. The master application sends an application-specific shutdown message to the remote context 2. This bare-metal application cleans up application resources, sends a shutdown acknowledge to master, and invokes remoteproc_resource_deinit API to de-initialize remoteproc on the bare-metal side. 3. On receiving the shutdown acknowledge message, the master application invokes the remoteproc_shutdown API to shut down the remote processor and de-initialize remoteproc using remoteproc_deinit on its side.
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FILES:
embeddedsw/lib/sw_services/xilffs/src/cc932.c

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FatFs - FAT file system module R0.10b (C)ChaN, 2014

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February 26, 2006 R0.00 Prototype. April 29, 2006 R0.01 First stable version. June 10, 2006 R0.02 Added FAT12 support. Removed unbuffered mode. Fixed a problem on small (<32M) partition. June 11, 2006 R0.03a Fixed cluster scan algorithm to write files fast. Fixed f_mkfs() creates incorrect directory on FAT32. April 24, 2007 R0.04 Supported multiple drive system. Changed some interfaces for multiple drive system. Changed f_mountdrv() to f_mount(). Added f_mkfs(). April 1, 2007 R0.04a Supported multiple partitions on a physical drive. Added a capability of extending file size to f_lseek(). Added minimization level 3. Fixed an endian sensitive code in f_mkfs(). May 5, 2007 R0.04b Added a configuration option _USE_NTFLAG. Added FSINFO support. Fixed DBCS name can result FR_INVALID_NAME. Fixed short seek (< csize) collapses the file object. August 25, 2007 R0.05 Changed arguments of f_read(), f_write() and f_mkfs(). Fixed f_mkfs() on FAT32 creates incorrect FSINFO. Fixed f_mkfs() on FAT32 creates incorrect directory. February 17, 2008 R0.06 Added f_truncate() and f_utime(). Fixed off by one error at FAT sub-type determination. Fixed btr in f_read() can be mistruncated. Fixed cached sector is not flushed when create and close without write. April 1, 2008 R0.06 Added fputc(), fputs(), fprintf() and fgets(). Improved performance of f_lseek() on moving to the same or following cluster. April 1, 2009 R0.07 Merged Tiny-FatFs as a configuration option. (_FS_TINY) Added long file name feature. Added multiple code page feature. Added re-entrancy for multitask operation. Added auto cluster size selection to f_mkfs(). Added rewind option to f_readdir(). Changed result code of critical errors. Renamed string functions to avoid name collision. April 14, 2009 R0.07a Separated out OS dependent code on reentrant cfg. Added multiple sector size feature. June 21, 2009 R0.07c Fixed f_unlink() can return FR_OK on error. Fixed wrong cache control in f_lseek(). Added relative path feature. Added f_chdir() and f_chdrive(). Added proper case conversion to extended character. November 3, 2009 R0.07e Separated out configuration options from ff.h to ffconf.h. Fixed f_unlink() fails to remove a sub-directory on _FS_RPATH. Fixed name matching error on the 13 character boundary. Added a configuration option, _LFN_UNICODE. Changed f_readdir() to return the SFN with always upper case on non-LFN cfg. May 15, 2010 R0.08 Added a memory configuration option. (_USE_LFN 3) Added file lock feature. (_FS_SHARE) Added fast seek feature. (_USE_FASTSEEK) Changed some types on the API, XCHAR->TCHAR. Changed .fname in the FILINFO structure on Unicode cfg. String functions support UTF-8 encoding files on Unicode cfg. August 16, 2010 R0.08a Added f_getcwd(). Added sector erase feature. (_USE_ERASE) Moved file lock semaphore table from fs object to the bss. Fixed a wrong directory entry is created on non-LFN cfg when the given name contains `. Fixed f_mkfs() creates wrong FAT32 volume. January 15, 2011 R0.08b Fast seek feature is also applied to f_read() and f_write(). f_lseek() reports required size on creating CLMP. Extended format syntax of f_PRINTF(). Ignores duplicated directory separators in given path name. September 6, 2011 R0.09 f_mkfs() supports multiple partition to complete the multiple partition feature. Added f_fdisk(). August 27, 2012 R0.09a Changed f_open() and f_opendir() reject null object pointer to avoid crash. Changed option name _FS_SHARE to _FS_LOCK. Fixed
assertion failure due to OS/2 EA on FAT12/16 volume. Jan 24,'13 R0.09b Added f_setlabel() and f_getlabel(). Oct 02,'13 R0.10 Added selection of character encoding on the file. (_STRF_ENCODE) Added f_closedir(). Added forced full FAT scan for f_getfree(). (_FS_NOFSINFO) Added forced mount feature with changes of f_mount(). Improved behavior of volume auto detection. Improved write throughput of f.puts() and f_printf(). Changed argument of f_chdrive(), f_mkfs(), disk_read() and disk_write(). Fixed f_write() can be truncated when the file size is close to 4GB. Fixed f_open(), f_mkdir() and f_setlabel() can return incorrect error code. Jan 15,'14 R0.10a Added arbitrary strings as drive number in the path name. (_STR_VOLUME_ID) Added a configuration option of minimum sector size. (_MIN_SS) 2nd argument of f_rename() can have a drive number and it will be ignored. Fixed f_mount() with forced mount fails when drive number is > 1. Fixed f_close() invalidates the file object without volume lock. Fixed f_closedir() returns but the volume lock is left acquired. Fixed creation of an entry with LFN fails on too many SFN collisions. May 19,'14 R0.10b Fixed a hard error in the disk I/O layer can collapse the directory entry. Fixed LFN entry is not deleted on delete/rename an object with lossy converted SFN.
---------------------------------------------------------------------------/

MODIFICATION HISTORY: Ver Who Date Changes ----- ---- -------- 3.9 mn 04/18/18
Resolve build warnings for xilffs library

FILES:
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Included for the use of the fix_strcasecmp.c module which works around a Solaris problem.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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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.)

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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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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.

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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.

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1.781 pulseaudio 10.0-r0

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1.782 Python 3.3.3

1.782.1 Available under license :

A. HISTORY OF THE SOFTWARE

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

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

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

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

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   version 1.2.5, April 19th, 2010

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

*/

1.783 python 2.7.3 :r0.3.0

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A. HISTORY OF THE SOFTWARE

==========================

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

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

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

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

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1.785 python-argparse 1.2.1 :r4.0

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History

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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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1.788 python-certifi 2017.7.27.1-r0

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This package contains a modified version of ca-bundle.crt:

cacert.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.789 python-cffi-native 1.11.2-r0
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Advice for new contributors
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New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

First steps
----------

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**

The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the `CLA`_. See the `Contributor License Agreement FAQ`_ for a more thorough explanation.

* **Triage tickets**

If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`
* **Look for tickets that are accepted and review patches to build familiarity with the codebase and the process**

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. Run the tests and make sure they pass on your system. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

* **Keep old patches up to date**

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

* **Write some documentation**

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`, in particular the tips for :ref:`improving-the-documentation`.

.. note::

   The `reports page`_ contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

   .. _reports page: https://code.djangoproject.com/wiki/Reports

   .. _CLA: https://www.djangoproject.com/foundation/cla/
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Guidelines
----------

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

* **Pick a subject area that you care about, that you are familiar with, or that you want to learn about**

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.
**Analyze tickets’ context and history**

Trac isn’t an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn’t necessarily mean that the idea will still have support. You also need to pay attention to who hasn’t spoken — for example, if a core team member hasn’t been recently involved in a discussion, then a ticket may not have the support required to get into trunk.

**Start small**

It’s easier to get feedback on a little issue than on a big one. See the `easy pickings`.

**If you’re going to engage in a big task, make sure that your idea has support first**

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that the core team supports a proposed feature before you go implementing it.

**Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say “this ticket is correct” or “this patch needs work”, but it’s the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of the core developers. We can’t do it without YOU!

**Err on the side of caution when marking things Ready For Check-in**

If you’re really not certain if a ticket is ready, don’t mark it as such. Leave a comment instead, letting others know your thoughts. If you’re mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

**Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

**Be rigorous**

When we say “:pep:`8`, and must have docs and tests”, we mean it. If a patch doesn’t have docs and tests, there had better be a good reason. Arguments
like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:

FAQ
---

1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?**

First off, it's not personal. Django is entirely developed by volunteers (even the core developers), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the |django-developers| mailing list asking for review on the ticket, or to bring it up in the #django-dev IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?**

   Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

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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
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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
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1.808 python-jinja2 2.9.6-r0

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1.809 python-markupsafe 1.0

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1.810 python-native 2.7.13

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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.

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History of the software

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://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 (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister
----------------

The `random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

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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Sockets
------

The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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MD5 message digest algorithm
-------------------------

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    L. Peter Deutsch
    ghost@aladdin.com

    Independent implementation of MD5 (RFC 1321).

    This code implements the MD5 Algorithm defined in RFC 1321, whose
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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-----------------------------

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1.813 python-nose 1.3.7-r0

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1.814 python-numpy 1.13.1-r0

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1.821 python-pyasn1 0.3.6-r0

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1.822 python-pycparser 2.18-r0

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1.828 python-scapy 2.3.1 :ml2.0
1.828.1 Available under license:
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1.829 python-scons-native 2.5.1-r0
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1.830 python-setuptools 36.2.7-r0
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1.832 python-setuptools-scm-native 1.15.6-r0

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1.833 python-six 1.11.0-r0
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1.834 python-twitter 3.4.0-r0

1.835 python-urllib3 1.22-r0
1.835.1 Available under license:

# Contributions to the urllib3 project

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## Contributors

In chronological order:

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  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)
* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

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  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions
* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage
* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.
* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to 'memoryview' usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
* Ensure timeouts are not booleans and greater than zero.
* Fixed infinite loop in `stream` when `amt=None`.
* Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarks.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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principal author, although it includes many contributions from others.

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

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

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Mersenne Twister

The `random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

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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Sockets
------

The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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

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--------

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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)

strtod and dtoa
----------------

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://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 (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister

The :mod:`_random` module includes code based on a download from
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the verbatim comments from the original code::

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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Sockets
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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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Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

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cfuhash
-------

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libmpdec

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

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

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

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1.839 python3-cython-native 0.27.1-r0

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1.842 python3-gitdb 0.6.4-r0

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gitdb/test/fixtures/packs/pack-11fdfa9e156ab73caae3b6da867192221f2089c2.idx
and

gitdb/test/fixtures/packs/pack-11fdfa9e156ab73caae3b6da867192221f2089c2.pack
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1.843 python3-iniparse-native 0.4-r0

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

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

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

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

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Mersenne Twister

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

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

    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
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
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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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--------

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Original location:
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Solution inspired by code from:
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Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

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-------

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1.846 python3-pygobject 3.24.1-r0
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1.847 python3-pyserial 3.4-r0

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1.848 python3-pyyaml-native 3.12-r0

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1.849 python3-six-native 1.10.0-r0
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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s("\"%s\"\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s("\"%s\", %d, %#x)"}, NULL, NULL },
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{ TARGET_FREEBSD_NR___sysctl, "__sysctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___umtx_op, "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s("\"%s",%#o)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", "adjtime", NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjointime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s("\"%s\")"}, NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmode, "chmod", "%s("\"%s",%#o)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s("\"%s",%#x)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s("\"%s\", %d, %d, %\"%s\"\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\"\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s("\"%s\", %d, %\"%s\"\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s("\"%s\", %d, %\"%s\"\", NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s("%s",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s("%s","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s("%s","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s("%s")", NULL, NULL },
{ TARGET_FREEBSD_NRUnmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%d)", NULL, NULL },
/*
* System call numbers.
*
* created from FreeBSD: relo9.1/sys/kern/syscalls.master 229723
* 2012-01-06 19:29:16Z jhb
*/

#define TARGET_FREEBSD_NR_syscall 0
#define TARGET_FREEBSD_NR_exit 1
#define TARGET_FREEBSD_NR_fork 2
#define TARGET_FREEBSD_NR_read 3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open 5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link 9
#define TARGET_FREEBSD_NR_unlink 10
/* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
/* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_getuid 44
#define TARGET_FREEBSD_NR_ktrace 45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink   57
#define TARGET_FREEBSD_NR_readlink  58
#define TARGET_FREEBSD_NR_execve    59
#define TARGET_FREEBSD_NR_umask    60
#define TARGET_FREEBSD_NR_chroot   61
/* 62 is old fstat */
/* 63 is old getkerminfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync    65
#define TARGET_FREEBSD_NR_vfork    66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk     69
#define TARGET_FREEBSD_NR_sstk     70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise  72
#define TARGET_FREEBSD_NR_munmap   73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise  75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore  78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp  81
#define TARGET_FREEBSD_NR_setpgid  82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapoff  85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2     90
#define TARGET_FREEBSD_NR_select   93
#define TARGET_FREEBSD_NR_fsync    95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket   97
#define TARGET_FREEBSD_NR_connect  98
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind     104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen   106

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/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday  116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt    118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev    121
#define TARGET_FREEBSD_NR_settimeofday  122
#define TARGET_FREEBSD_NR_fchown    123
#define TARGET_FREEBSD_NR_fchmod    124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid  126
#define TARGET_FREEBSD_NR_setregid  127
#define TARGET_FREEBSD_NR_rename    128
/* 129 is old truncate */
/* 130 is old fruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mknodo  132
#define TARGET_FREEBSD_NR_sendto    133
#define TARGET_FREEBSD_NR_shutdown  134
#define TARGET_FREEBSD_NR_socketpair    135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes    138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime   140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg    146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid    147
#define TARGET_FREEBSD_NR_quotactl  148
/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall   154
#define TARGET_FREEBSD_NR_nfssvc    155
/* 156 is old getdirent */
#define TARGET_FREEBSD_NR_freebsd4_statfs   157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs  158
#define TARGET_FREEBSD_NR_lgetfh    160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname    162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname    163
#define TARGET_FREEBSD_NR_freebsd4_uname    164
#define TARGET_FREEBSD_NR_sysarch   165
#define TARGET_FREEBSD_NR_rtprio    166
#define TARGET_FREEBSD_NR_semsys    169
#define TARGET_FREEBSD_NR_msgsys    170
#define TARGET_FREEBSD_NR_shmsys    171
#define TARGET_FREEBSD_NR_freebsd6_pread    173
#define TARGET_FREEBSD_NR_freebsd6_pwrite   174
#define TARGET_FREEBSD_NR_setfib    175
#define TARGET_FREEBSD_NR_ntp_adjtime   176
#define TARGET_FREEBSD_NR_setgid    181
#define TARGET_FREEBSD_NR_setegid   182
#define TARGET_FREEBSD_NR_seteuid   183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirent 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek    199
#define TARGET_FREEBSD_NR_freebsd6_truncate    200
#define TARGET_FREEBSD_NR_freebsd6_truncate 201
#define TARGET_FREEBSD_NR___sysctl  202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock   204
#define TARGET_FREEBSD_NR_undo 205
#define TARGET_FREEBSD_NR_futimes   206
#define TARGET_FREEBSD_NR_getpgid   207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7___msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NRormsg 226
#define TARGET_FREEBSD_NR_msgsnd    227
#define TARGET_FREEBSD_NR___msgrecv 228
#define TARGET_FREEBSD_NR_shmat 229
#define TARGET_FREEBSD_NR_freebsd7_shmctl  229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_extattr_set_fd 371
#define TARGET_FREEBSD_NR_extattr_get_fd 372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR__setegid 374
#define TARGET_FREEBSD_NR_eaccess 376
#define TARGET_FREEBSD_NR_afs3_syscall 377
#define TARGET_FREEBSD_NR_nmount 378
#define TARGET_FREEBSD_NR___setugid 374
#define TARGET_FREEBSD_NR_eaccess 376
#define TARGET_FREEBSD_NR_afs3_syscall 377
#define TARGET_FREEBSD_NR_nmount 378
#define TARGET_FREEBSD_NR___mac_get_proc 384
#define TARGET_FREEBSD_NR___mac_set_proc 385
#define TARGET_FREEBSD_NR___mac_get_fd 386
#define TARGET_FREEBSD_NR___mac_get_file 387
#define TARGET_FREEBSD_NR___mac_set_fd 388
#define TARGET_FREEBSD_NR___mac_set_file 389
#define TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR_lchflags 391
#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR_mac_syscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_statfs 396
#define TARGET_FREEBSD_NR_fstatfs 397
#define TARGET_FREEBSD_NR_fhstatfs 398
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR___mac_get_pid 409
#define TARGET_FREEBSD_NR___mac_get_link 410
#define TARGET_FREEBSD_NR___mac_set_link 411
#define TARGET_FREEBSD_NR___mac_delete_link 412
#define TARGET_FREEBSD_NR___acl_get_link 413
#define TARGET_FREEBSD_NR___acl_set_link 414
#define TARGET_FREEBSD_NR___acl_delete_link 415
#define TARGET_FREEBSD_NR___acl_execve 416
#define TARGET_FREEBSD_NR___setegid 417
#define TARGET_FREEBSD_NR_getcontext 421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR___acl_get_link 425
#define TARGET_FREEBSD_NR___acl_set_link 426
#define TARGET_FREEBSD_NR___acl_delete_link 427
#define TARGET_FREEBSD_NR___acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_sigwait 429
#define TARGET_FREEBSD_NR_thr_create 430
#define TARGET_FREEBSD_NR_thr_exit 431
#define TARGET_FREEBSD_NR_thr_self 432
#define TARGET_FREEBSD_NR_thr_kill 433
#define TARGET_FREEBSD_NR__umtx_lock 434
#define TARGET_FREEBSD_NR__umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon 446
#define TARGET_FREEBSD_NR_getauid 447
#define TARGET_FREEBSD_NR_setauid 448
#define TARGET_FREEBSD_NR_getaudit 449
#define TARGET_FREEBSD_NR_setaudit 450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl 453
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_scsp_peeloff 471
#define TARGET_FREEBSD_NR_scsp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_scsp_generic_sendmsg_iov 473
#define TARGET_FREEBSD_NR_scsp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open  482
#define TARGET_FREEBSD_NR_shm_unlink  483
#define TARGET_FREEBSD_NR_cpuset  484
#define TARGET_FREEBSD_NR_cpuset_setid  485
#define TARGET_FREEBSD_NR_cpuset_getid  486
#define TARGET_FREEBSD_NR_cpuset_getaffinity  487
#define TARGET_FREEBSD_NR_cpuset_setaffinity  488
#define TARGET_FREEBSD_NR_facessat  489
#define TARGET_FREEBSD_NR_fchmodat  490
#define TARGET_FREEBSD_NR_fchownat  491
#define TARGET_FREEBSD_NR_fexecve  492
#define TARGET_FREEBSD_NR_fstatat  493
#define TARGET_FREEBSD_NR_futimesat  494
#define TARGET_FREEBSD_NR_linkat  495
#define TARGET_FREEBSD_NR_mkdirat  496
#define TARGET_FREEBSD_NR_mkfifoat  497
#define TARGET_FREEBSD_NR_mknodat  498
#define TARGET_FREEBSD_NR_openat  499
#define TARGET_FREEBSD_NR_posix_readlinkat  500
#define TARGET_FREEBSD_NR_renamenat  501
#define TARGET_FREEBSD_NR symlinkat  502
#define TARGET_FREEBSD_NR_unlinkat  503
#define TARGET_FREEBSD_NR_posix_openpt  504
#define TARGET_FREEBSD_NR_gssd_syscall  505
#define TARGET_FREEBSD_NR_jail_get  506
#define TARGET_FREEBSD_NR_jail_set  507
#define TARGET_FREEBSD_NR_jail_remove  508
#define TARGET_FREEBSD_NR_closefrom  509
#define TARGET_FREEBSD_NR___semctl  510
#define TARGET_FREEBSD_NR_msgctl  511
#define TARGET_FREEBSD_NR_msgctl  512
#define TARGET_FREEBSD_NR_lpathconf  513
#define TARGET_FREEBSD_NR_cap_getmode  514
#define TARGET_FREEBSD_NR_cap_getrights  515
#define TARGET_FREEBSD_NR_cap_enter  516
#define TARGET_FREEBSD_NR_pselect  517
#define TARGET_FREEBSD_NR_getloginclass  518
#define TARGET_FREEBSD_NR_setloginclass  519
#define TARGET_FREEBSD_NR___semctld  520
#define TARGET_FREEBSD_NR_getloginclass  521
#define TARGET_FREEBSD_NR_setloginclass  522
#define TARGET_FREEBSD_NR_rctl_get_racct  523
#define TARGET_FREEBSD_NR_rctl_get_rules  524
#define TARGET_FREEBSD_NR_rctl_get_limits  525
#define TARGET_FREEBSD_NR_rctl_add_rule  526
#define TARGET_FREEBSD_NR_rctl_remove_rule  527
#define TARGET_FREEBSD_NR_posix_fallocate  528
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL 532

/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp */

/*
 * System call numbers.
 *
 * created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
 */

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NR_unmount 22
#define TARGET_OPENBSD_NR_setuid 23
#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35
#define TARGET_OPENBSD_NR_sync 36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_prof 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin 50
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_sigs pending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 66
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_sstk 70
#define TARGET_OPENBSD_NR_munmap 73
#define TARGET_OPENBSD_NR_mprotect 74
#define TARGET_OPENBSD_NR_madvise 75
#define TARGET_OPENBSD_NR_mincore 78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_getpgrp 81
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setitimer 83
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_listen 106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctl 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfspioctl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrcv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR___semctl 296
#define TARGET_OPENBSD_NR___semctl 297
#define TARGET_OPENBSD_NR___semctl 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd 304
/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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 * 
 */

#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */

/* $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $ */
/* $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $ */

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*
* @(#)errno.h 8.5 (Berkeley) 1/21/94
*/

#define TARGET_EPERM 1 /* Operation not permitted */
define TARGET_ENOENT 2 /* No such file or directory */
define TARGET_ESRCH 3 /* No such process */
define TARGET_EINTR 4 /* Interrupted system call */
define TARGET_EIO 5 /* Input/output error */
define TARGET_ENXIO 6 /* Device not configured */
define TARGET_E2BIG 7 /* Argument list too long */
define TARGET_ENOEXEC 8 /* Exec format error */
define TARGET_EBADF 9 /* Bad file descriptor */
define TARGET_ECHILD 10 /* No child processes */
define TARGET_EDEADLK 11 /* Resource deadlock avoided */

/* 11 was EAGAIN */
define TARGETENOMEM 12 /* Cannot allocate memory */
define TARGET_EACCES 13 /* Permission denied */
define TARGETEFAULT 14 /* Bad address */
define TARGET_ENOTBLK 15 /* Block device required */
define TARGET_EBUSY 16 /* Device busy */
define TARGET_EEXIST 17 /* File exists */
define TARGET_EXDEV 18 /* Cross-device link */
define TARGET_ENODEV 19 /* Operation not supported by device */
define TARGET_ENOTDIR 20 /* Not a directory */
define TARGET_EISDIR 21 /* Is a directory */
#define TARGET_EINVAL 22 /* Invalid argument */
#define TARGET_ENFILE 23 /* Too many open files in system */
#define TARGET_EMFILE 24 /* Too many open files */
#define TARGET_ENOTTY 25 /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY 26 /* Text file busy */
#define TARGET_EFBIG 27 /* File too large */
#define TARGET_ENOSPC 28 /* No space left on device */
#define TARGET_ESPIPE 29 /* Illegal seek */
#define TARGET_EROFS 30 /* Read-only file system */
#define TARGET_EMLINK 31 /* Too many links */
#define TARGET_EPIPE 32 /* Broken pipe */

/* math software */
#define TARGET_EDOM 33 /* Numerical argument out of domain */
#define TARGET_ERANGE 34 /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET_EINPROGRESS 36 /* Operation now in progress */
#define TARGET_EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39 /* Destination address required */
#define TARGET_EMSGSIZE 40 /* Message too long */
#define TARGET_EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ENOPROTOQUOPT 44 /* Protocol family not supported */
#define TARGET_EPROTONOSUPPORT 45 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 46 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 47 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 48 /* Protocol not supported */
#define TARGET_EAFNOSUPPORT 49 /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 50 /* Address already in use */
#define TARGET_EADDRNOTAVAIL 51 /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 52 /* Network is down */
#define TARGET_ENETUNREACH 53 /* Network is unreachable */
#define TARGET_ENETRESET 54 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 55 /* Software caused connection abort */
#define TARGET_ECONNRESET 56 /* Connection reset by peer */
#define TARGET_ENOBUFS 57 /* No buffer space available */
#define TARGET_EISCONN 58 /* Socket is already connected */
#define TARGET_ENOTCONN 59 /* Socket is not connected */
#define TARGET_ESHUTDOWN 60 /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 61 /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 62 /* Operation timed out */
```c
#define TARGET_ECONNREFUSED 61           /* Connection refused */
#define TARGET_ELOOP 62                   /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63           /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64               /* Host is down */
#define TARGET_EHOSTUNREACH 65            /* No route to host */
#define TARGET_ENOTEMPTY 66                /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67                 /* Too many processes */
#define TARGET_EUSERS 68                   /* Too many users */
#define TARGET_EDQUOT 69                   /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70                   /* Stale NFS file handle */
#define TARGET_EREMOTE 71                  /* Too many levels of remote in path */
#define TARGET_EBADRPC 72                  /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73             /* RPC version wrong */
#define TARGET_EPROCUNAVAIL 74             /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75            /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76             /* Bad procedure for program */
#define TARGET_ENOLCK 77                   /* No locks available */
#define TARGET_ENOSYS 78                   /* Function not implemented */

#define TARGET_EFTYPE 79                   /* Inappropriate file type or format */
#define TARGET_EAUTH 80                     /* Authentication error */
#define TARGET_ENEEDAUTH 81                 /* Need authenticator */
#define TARGET_EIPSEC 82                    /* IPsec processing failure */
#define TARGET_ENOATTR 83                   /* Attribute not found */
#define TARGET_EILSEQ 84                    /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85                 /* No medium found */
#define TARGET_EMEDIUMTYPE 86               /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87                 /* Conversion overflow */
#define TARGET_ECANCELED 88                 /* Operation canceled */
#define TARGET_EIDRM 89                     /* Identifier removed */
#define TARGET_ENOMSG 90                    /* No message of desired type */
#define TARGET_ELAST 90                     /* Must be equal largest errno */
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*
* @(#)mman.h 8.2 (Berkeley) 1/9/95
*/

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */
#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7


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* @(#)mman.h 8.2 (Berkeley) 1/9/95
*/
#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */
#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */
#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */
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*      @(#)mman.h 8.1 (Berkeley) 6/2/93
*/

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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Version 2.1, February 1999

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ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

SUBDIRS=
ifeq ($(SNK_BIOSEMU_APPS), 1)
SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)

all :
for subdir in $(SUBDIRS) ; do $(MAKE) -C $$dir | exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $$dir $@ ; done
Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v

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void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
        x86emu_dump_regs();
    }

    if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
        x86emu_dump_xregs();
    } else {
        x86emu_dump_regs();
    }
}

if (DEBUG_DECODE() && !DEBUG_DECODE_NOPRINT()) {
    printk("%04x:%04x ", M.x86.saved_cs, M.x86.saved_ip);
}

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
    TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
        M.x86.R_IP = (u16)target;
        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
    }
+    DECODE_CLEAR_SEGOVR();
+    END_OF_INSTR();
+}
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF

+s32 x86emu_bswap(s32 reg)
+
+  // perform the byte swap
+  s32 temp = reg;
+  reg = (temp & 0xFF000000) >> 24;
+  reg |= (temp & 0xFF0000) >> 8;
+  reg |= (temp & 0xFF00) << 8;
+  reg |= (temp & 0xFF) << 24;
+  return reg;
+
+void x86emuOp2_bswap(u8 op2)
+
+  /* byte swap 32 bit register */
+  START_OF_INSTR();
+  DECODE_PRINTF("BSWAP\t");
+  switch (op2) {
+    case 0xc8:
+      DECODE_PRINTF("EAX\n");
+      M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+      break;
+    case 0xc9:
+      DECODE_PRINTF("ECX\n");
+      M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+      break;
+    case 0xca:
+      DECODE_PRINTF("EDX\n");
+      M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+      break;
+    case 0xcb:
+      DECODE_PRINTF("EBX\n");
+      M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+      break;
+    case 0xcc:
+      DECODE_PRINTF("ESP\n");
+      M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+      break;
+    case 0xcd:
+      DECODE_PRINTF("EBP\n");
+      M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+      break;
+    case 0xce:
+      DECODE_PRINTF("ESI\n");
+      M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
break;
    case 0xcf:
      DECODE_PRINTF("EDX\n");
      M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
      break;
    }
    TRACE_AND_STEP();
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
  }
@@ -1702,14 +1763,14 @@
/*  0xc5 */ x86emuOp2_illegal_op,
/*  0xc6 */ x86emuOp2_illegal_op,
/*  0xc7 */ x86emuOp2_illegal_op,
-* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
-* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
-* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
-* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
-* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
-* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
-* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
-* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+/*  0xc8 */ x86emuOp2_bswap,
+/*  0xc9 */ x86emuOp2_bswap,
+/*  0xca */ x86emuOp2_bswap,
+/*  0xcb */ x86emuOp2_bswap,
+/*  0xcc */ x86emuOp2_bswap,
+/*  0xcd */ x86emuOp2_bswap,
+/*  0xce */ x86emuOp2_bswap,
+/*  0xcf */ x86emuOp2_bswap,
/*  0xd0 */ x86emuOp2_illegal_op,
/*  0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c7 Sep 2007 10:01:21 -0000
+++ ops.c20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
  imm = (s8)fetch_byte_imm();
  DECODE_PRINTF2("PUSH\t\%d\n", imm);
  TRACE_AND_STEP();
-  push_word(imm);
+  if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    push_long(imm);
+  } else {

push_word(imm);
}  
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
} 
@@ -1256,8 +1260,10 @@ 
target = (u16)(M.x86.R_IP + (s16)offset);
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
- if (cond)
- if (cond) {
-M.x86.R_IP = target;
+if (cond) {
JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+ }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
} 
@@ -2516,9 +2522,11 @@ 
count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
-        /* move them until (E)CX is ZERO. */
-        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
-        M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX = 0;
+    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} 
while (count--) {
@@ -2526,6 +2534,8 @@
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+     if (M.x86.intr & INTR_HALTED)
+        break;
    }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
-        /* move them until (E)CX is ZERO. */
-        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ICX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    +if (M.x86.intr & INTR_HALTED)
    +    break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    +    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val1 = fetch_data_byte(M.x86.R_SI);
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(val1, val2);
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        +    M.x86.R_ECX -= 1;
        + else
        +    M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ((M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0)) break;
        if ((M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF)) break;
        + if (M.x86.intr & INTR_HALTED)
        +    break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    @@ -2644,8 +2663,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
        - /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        +    while ((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {


if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    val1 = fetch_data_long(M.x86.R_SI);
    val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
}

if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    val1 = fetch_data_long(M.x86.R_SI);
    val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word((u16)val1, (u16)val2);
}

- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX -= 1;
+ else
+     M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+ if (M.x86.intr & INTR_HALTED)
+     break;
}
M.x86.mode &= ¬(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    M.x86.mode &= ¬(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}

TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        +     M.x86.R_ECX -= 1;
        + else
        +     M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
        + if (M.x86.intr & INTR_HALTED)
        +     break;
    }
    M.x86.mode &= ¬(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        - /* move them until CX is ZERO. */
        - count = M.x86.R_CX;
        + /* move them until (E)CX is ZERO. */
count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
if (M.x86.mode & SYSMODE_32BIT_REP)
    M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--)
    store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
M.x86.R_DI += inc;
if (M.x86.intr & INTR_HALTED)
    break;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
inc = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        M.x86.R_CX -= 1;
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX -= 1;
        else
            M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        if (M.x86.intr & INTR_HALTED)
            break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        /* move them until CX is ZERO. */
        count = M.x86.R_CX;
        /* move them until (E)CX is ZERO. */
        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
    }
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
while (count--)
{
    M.x86.R_AX = fetch_data_word(M.x86.R_SI);
}
M.x86.R_SI += inc;
+
    if (M.x86.intr & INTR_HALTED)
    +        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
inc = 1;
+
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
        -            /* move them until CX is ZERO. */
        -        while (M.x86.R_CX != 0) {
        +            /* move them until (E)CX is ZERO. */
        +            while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
            -                M.x86.R_CX -= 1;
            +                if (M.x86.mode & SYSMODE_32BIT_REP)
                +                    M.x86.R_ECX -= 1;
                else
                    M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
            break;
            +                if (M.x86.intr & INTR_HALTED)
                +                    break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* REPNE */
        -            /* move them until CX is ZERO. */
        -        while (M.x86.R_CX != 0) {
        +            /* move them until (E)CX is ZERO. */
        +            while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(M.x86.R_AL, val2);
                -                    M.x86.R_CX -= 1;
                +                    if (M.x86.mode & SYSMODE_32BIT_REP)
                        M.x86.R_ECX -= 1;
                else
                    M.x86.R_CX -= 1;
                M.x86.R_DI += inc;
                if (ACCESS_FLAG(F_ZF))
break;    /* zero flag set means equal */
+
if (M.x86.intr & INTR_HALTED)
+
    break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -2951,8 +3003,8 @@
TRACE_AND_STEP();
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    
    /* REPE */

-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_long(M.x86.R_EAX, val);

    @ @ -2960,16 +3012,21 @@
    val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word(M.x86.R_Ax, (u16)val);
}

-    M.x86.R_CX -= 1;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF) == 0)
        break;

+    if (M.x86.intr & INTR_HALTED)
+        break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    
    /* REPNE */

-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_long(M.x86.R_EAX, val);

    @ @ -2977,10 +3034,15 @@
    val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word(M.x86.R_Ax, (u16)val);
}

-    M.x86.R_CX -= 1;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
M.x86.R_ECX -= 1;
else
M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF))
    break; /* zero flag set means equal */
if (M.x86.intr & INTR_HALTED)
    break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
}

imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
M.x86.R_SP += imm;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
M.x86.R_SP += imm;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
M.x86.R_IP = pop_word();
M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
M.x86.R_SP += imm;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

START_OF_INSTR();
DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and !ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
+        !ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and !ZF */
       M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0)
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
+        ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and ZF */
       M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0)
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
M.x86.R_CX -= 1;
if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
    M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
-    if (M.x86.R_CX == 0)
+    if (M.x86.R_CX == 0) {
        M.x86.R_IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
    DECODE_PRINTF("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
    DECODE_PRINTF("%04x:", cs);
    DECODE_PRINTF("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BITREP;
    DECODE_CLEAR_SEGOVR();
```c
END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
DECODE_PRINTF("REPE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
break;
case 4: /* jmp word ptr ... */
destval = fetch_data_word(destoffset);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
break;
case 5: /* jmp far ptr ... */
destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#define __HAS_LONG_LONG__
- s64 res = (s64)d * (s64)s;
+ s64 res = (s64)(s32)d * (s64)(s32)s;

    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
#define __HAS_LONG_LONG__
- u64 res = (u32)M.x86.R_EAX * (u32)s;
```
+ u64 res = (u64)M.x86.R_EAX * s;

M.x86.R_EAX = (u32)res;
M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-      /* in until CX is ZERO. */
-      u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+      /* in until (E)CX is ZERO. */
+      u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
M.x86.R_ECX : M.x86.R_CX);
    }
    while (count--) {
      single_in(size);
      M.x86.R_DI += inc;
    }
    M.x86.R_CX = 0;
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    if (M.x86.mode & SYSMODE_32BIT_REP) {
      M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-      /* out until CX is ZERO. */
-      u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+      /* out until (E)CX is ZERO. */
+      u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
M.x86.R_ECX : M.x86.R_CX);
    }
    while (count--) {
      single_out(size);
      M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    if (M.x86.mode & SYSMODE_32BIT_REP) {
      M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
diff -u -u -r1.1 -r1.2  
--- sys.c 7 Sep 2007 10:01:21 -0000.1  
+++ sys.c 7 Sep 2007 10:03:13 -0000.2  
@@ -45,11 +45,6 @@  
#include <x86emu/regs.h>  
#include "debug.h"  
#include "prim_ops.h"  
-#ifdef LINUXBIOS_VERSION  
-#include "io.h"  
-#else  
-#include <sys/io.h>  
-#endif  

#ifdef IN_MODULE  
#include "xf86_ansic.h"  
@@ -220,7 +215,7 @@  
{  
  DB(if (DEBUG_IO_TRACE()))  
  printk("inb %#04x \n", addr);  
-  return inb(addr);  
+  return 0;  
}  
/*

/@@ -235,7 +230,7 @@  
{  
  DB(if (DEBUG_IO_TRACE()))  
  printk("inw %#04x \n", addr);  
-  return inw(addr);  
+  return 0;  
}  
/*

/@@ -250,7 +245,7 @@  
{  
  DB(if (DEBUG_IO_TRACE()))  
  printk("inl %#04x \n", addr);  
-  return inl(addr);  
+  return 0;  
}  
/*

/@@ -264,7 +259,6 @@  
{  
  DB(if (DEBUG_IO_TRACE()))  
  printk("outb %#02x -> %#04x \n", val, addr);  
-  outb(val, addr);  
  return;
*/


void X86EMU_setMemBase(void *base, size_t size)
{
    M.mem_base = (unsigned long) base;
    M.mem_size = size;
}

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@

# define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
+# define DEBUG_SYS() (M.x86.debug & DEBUG_SYS_F)
+# define DEBUG_MEM_TRACE() (M.x86.debug & DEBUG_MEM_TRACE_F)
+# define DEBUG_IO_TRACE() (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
+# define DEBUG_TRACEJMPREGS() 0
+# define DEBUG_TRACEJMP() 0
+# define DEBUG_TRACECALLREGS() 0
+## define DEBUG_TRACEJMP()       0
+## define DEBUG_TRACEJMPREGS()   0
+## define DEBUG_SYS()           0
+## define DEBUG_MEM_TRACE()     0
+## define DEBUG_IO_TRACE()      0
@@ -169,14 +171,20 @@
       x86emu_dump_regs();                                     \
       if (DEBUG_TRACECALL())                                     \
       printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-## define RETURN_TRACE(n,u,v)                                    \
+## define RETURN_TRACE(u,v,w,x,s)                                    \
       x86emu_dump_regs();                                     \
       if (DEBUG_TRACECALL())                                     \
       printk("%04x:%04x: %s
",u,v,n);
+## define RETURN_TRACE(u,v,w,x,s)                                    \
       if (DEBUG_TRACECALLREGS())									\ 
       x86emu_dump_regs();                                     \
       if (DEBUG_TRACECALL())                                     \
       x86emu_dump_regs();                                     \
       if (DEBUG_TRACECALL())                                     \
-# define RETURN_TRACE(n,u,v)                                    \
+## define RETURN_TRACE(u,v,w,x,s)                                    \
       if (DEBUG_TRACEJMPREGS())
       JMP_TRACE(u,v,w,x,s)                                    \
       if (DEBUG_TRACEJMP())
       +  x86emu_dump_regs();
       +  if (DEBUG_TRACEJMPREGS())
       +    x86emu_dump_regs();
       +  if (DEBUG_TRACEJMP())
       +    printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+## define RETURN_TRACE(u,v,w,x,s)
+## define JMP_TRACE(u,v,w,x,s)
#endif

#undef DEBUG_TRACEJMPREGS

Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h7 Sep 2007 10:01:21 -00001.1
+++ include/x86emu/regs.h15 Jan 2008 13:46:40 -00001.4
@@ -231,6 +231,9 @@
 #define SYSMODE_PREFIX_REPNE    0x00000100
 #define SYSMODE_PREFIX_DATA     0x00000200

#define SYSMODE_PREFIX_REPNE  0x00000100
#define SYSMODE_PREFIX_DATA  0x00000200
```c
#define SYSMODE_PREFIX_ADDR   0x00000400
+#/phueper: for REP(E|NE) Instructions, we need to decide whether it should be using
+#the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP   0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR   0x20000000
#define SYSMODE_HALTED       0x40000000
@@ -250,7 +253,8 @@
         SYSMODE_SEGOVR_GS  | \ SYSMODE_SEGOVR_SS  | \ SYSMODE_PREFIX_DATA | \
         - SYSMODE_PREFIX_ADDR) + SYSMODE_PREFIX_ADDR    | \
         + SYSMODE_32BIT_REP)
#define INTR_SYNCH           0x1
#define INTR_ASYNCH          0x2
@@ -274,9 +278,9 @@
 */
 u32          mode;
 volatile int  intr; /* mask of pending interrupts */
-int debug;
+ volatile int debug;
#if defined DEBUG
-int check;
+ int check;
 u16 saved_ip;
 u16 saved_cs;
 int enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif
@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
```
#define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
 #ifdef __cplusplus
 }                       /* End of “C” linkage for C++ */
 #endif
-
#endif /* __X86EMU_X86EMU_H */

#ifndef TOP
 TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
 export TOP
 endif
 include $(TOP)/make.rules

ROOTDIR ?= ../..

LDFLAGS=
ASFLAGS		= -I./include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS		= -UDEBUG -m64 -I -I/include -Iinclude/x86emu \
  -I$(TOP)/clients/net-snk/include -I$(ROOTDIR)/include \
  -I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \
  -ffreestanding -Wall -Wno-unused

X86EMU_OBJS= debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
 $(CC) $(ASFLAGS) -c -o $@  %.S

%.o: %.c
 $(CC) $(CFLAGS) -c -o $@  %.S

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJS)
$(AR) -rc $@ $^ $(RANLIB) $@

clean:
$(RM) *.o *.i *.s libx86emu.a

distclean: clean
#***************************************************************************
# * Copyright (c) 2004, 2008 IBM Corporation
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# * http://www.opensource.org/licenses/bsd-license.php
# *
# * Contributors:
# * IBM Corporation - initial implementation
#***************************************************************************/
#!/bin/bash
#set -x
#set -e

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check wether svn, patch, ... is available...

if [ ! -x $SVN ]; then
    echo "subversion executable not found!"
    exit -1
fi
if [ ! -x $PATCH ]; then
    echo "patch executable not found!"
    exit -1
fi
if [ ! -r $DIFF_FILE ]; then
    echo "diff file $DIFF_FILE not found!"
    exit -1
fi

# download the x86emu sources from LinuxBIOS subversion
#revision known to work...
REV=496

echo "Checking out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."

mkdir -p include/x86emu
cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion director..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

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/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
 * System call numbers.
 */

/* created from $NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp */

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
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Version 2.1, February 1999

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 */
[ TARGET_FREEBSD_NR__acl_check_fd, "__acl_check_fd", "%s\(\%d, \%d, \%#x\)\", NULL, NULL ],
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{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%#p,%#d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(""%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, "%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openconf, "openconf", "%s(""%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_prof, "prof", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s("%s",%p,%d")", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s("%s","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)"", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgids, "setgids", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)"", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigtogroup, "sigtogroup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigwaitinfo, "sigwaitinfo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signalfd, "signalfd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signalfdwithflags, "signalfdwithflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigtogroup, "sigtogroup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigwaitinfo, "sigwaitinfo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signalfd, "signalfd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signalfdwithflags, "signalfdwithflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigtogroup, "sigtogroup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigwaitinfo, "sigwaitinfo", NULL, NULL, NULL },
#define TARGET_FREEBSD_NR_syscall 0
#define TARGET_FREEBSD_NR_exit 1
#define TARGET_FREEBSD_NR_fork 2
#define TARGET_FREEBSD_NR_read 3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open 5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link 9
#define TARGET_FREEBSD_NR_unlink 10
/* 11 is obsolete exec */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
 /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockopt 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
 /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
 /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_geteuid 43
#define TARGET_FREEBSD_NR_prof 44
#define TARGET_FREEBSD_NR_ktrace 45
 /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
 /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
 /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/* 150 is old gethostname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
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#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
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#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_isetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfinnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312

/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
/* 322 is obsolete thr_sleep */
/* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigtreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 364
#define TARGET_FREEBSD_NR_extattr_get_fd 365
#define TARGET_FREEBSD_NR_extattr_delete_fd 366
#define TARGET_FREEBSD_NR___setugid 367
#define TARGET_FREEBSD_NR_eaccess 368

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#define TARGET_FREEBSD_NR__afs3_syscall   377
#define TARGET_FREEBSD_NR_nmount        378
#define TARGET_FREEBSD_NR___mac_get_proc 384
#define TARGET_FREEBSD_NR___mac_set_proc 385
#define TARGET_FREEBSD_NR___mac_get_fd   386
#define TARGET_FREEBSD_NR___mac_get_file 387
#define TARGET_FREEBSD_NR___mac_set_fd   388
#define TARGET_FREEBSD_NR___mac_set_file 389
#define TARGET_FREEBSD_NR_kenv           390
#define TARGET_FREEBSD_NR_lchflags       391
#define TARGET_FREEBSD_NR_uuidgen        392
#define TARGET_FREEBSD_NR_sendfile       393
#define TARGET_FREEBSD_NR_mac_syscall    394
#define TARGET_FREEBSD_NR_getfsstat      395
#define TARGET_FREEBSD_NR_statfs         396
#define TARGET_FREEBSD_NR_fhstatfs       397
#define TARGET_FREEBSD_NR_ksem_close     400
#define TARGET_FREEBSD_NR_ksem_post      401
#define TARGET_FREEBSD_NR_ksem_wait      402
#define TARGET_FREEBSD_NR_ksem_trywait   403
#define TARGET_FREEBSD_NR_ksem_init      404
#define TARGET_FREEBSD_NR_ksem_open      405
#define TARGET_FREEBSD_NR_ksem_unlink    406
#define TARGET_FREEBSD_NR_ksem_getvalue  407
#define TARGET_FREEBSD_NR_ksem_destroy   408
#define TARGET_FREEBSD_NR___mac_get_pid  409
#define TARGET_FREEBSD_NR___acl_get_link 410
#define TARGET_FREEBSD_NR___acl_set_link 411
#define TARGET_FREEBSD_NR___acl_delete_link 412
#define TARGET_FREEBSD_NR___acl_aclcheck_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link 414
#define TARGET_FREEBSD_NR___mac_execve   415
#define TARGET_FREEBSD_NR_sigaction      416
#define TARGET_FREEBSD_NR_sigreturn      417
#define TARGET_FREEBSD_NR_getcontext     421
#define TARGET_FREEBSD_NR_setcontext     422
#define TARGET_FREEBSD_NR_swapcontext    423
#define TARGET_FREEBSD_NR_swapoff        424
#define TARGET_FREEBSD_NR___acl_get_link 425
#define TARGET_FREEBSD_NR___acl_set_link 426
#define TARGET_FREEBSD_NR___acl_delete_link 427
#define TARGET_FREEBSD_NR___acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_sigwait        429
#define TARGET_FREEBSD_NR_thr_create     430
#define TARGET_FREEBSD_NR_thr_exit       431
#define TARGET_FREEBSD_NR_thr_self       432
#define TARGET_FREEBSD_NR_thr_kill       433
#define TARGET_FREEBSD_NR__umtx_lock 434
#define TARGET_FREEBSD_NR__umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon 446
#define TARGET_FREEBSD_NR_getauid 447
#define TARGET_FREEBSD_NR_setauid 448
#define TARGET_FREEBSD_NR_getaudit 449
#define TARGET_FREEBSD_NR_setaudit 450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl 453
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_faccessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_mknodat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl 510
#define TARGET_FREEBSD_NR_msgctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new 514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter 516
#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pdfork 518
#define TARGET_FREEBSD_NR_pdkill 519
#define TARGET_FREEBSD_NR_pdgetpid 520
#define TARGET_FREEBSD_NR_pselect 521
#define TARGET_FREEBSD_NR_getloginclass 522
#define TARGET_FREEBSD_NR_setloginclass 523
#define TARGET_FREEBSD_NR_rctl_get_racct 524
#define TARGET_FREEBSD_NR_rctl_get_rules 525
#define TARGET_FREEBSD_NR_rctl_get_limits 526
#define TARGET_FREEBSD_NR_rctl_add_rule 527
#define TARGET_FREEBSD_NR_rctl_remove_rule 528
#define TARGET_FREEBSD_NR_posix_fallocate 529
#define TARGET_FREEBSD_NR_posix_fadvise 530
#define TARGET_FREEBSD_NR_MAX_SYSCALL 531
#define TARGET_FREEBSD_NR_MAXSYS.Call 532

/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $ */

/*

Open Source Used In IOS XR Release 7.0.1

10199 */
* System call numbers.
*
* created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
*/

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NRUnmount 22
#define TARGET_OPENBSD_NR_unmount 21
#define TARGET_OPENBSD_NR_setuid 23
#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35
#define TARGET_OPENBSD_NR_sync 36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_profil 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin 50
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_sigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 66
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_munmap 73
#define TARGET_OPENBSD_NR_mprotect 74
#define TARGET_OPENBSD_NR_madvise 75
#define TARGET_OPENBSD_NR_mincore 78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_getpgrp 81
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setitimer 83
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mknod 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NRtruncate 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctl 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfsioctl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msqget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrcv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR_msgctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd 304
#define TARGET_OPENBSD_NR_adjfreq 305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_fstatfs 307
#define TARGET_OPENBSD_NR_fhstatfs 308
#define TARGET_OPENBSD_NR_fhstatfs 309
/* syscall flags from machine/trap.h */

#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */

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/* */
/* */
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */
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*
* @(#)errno.h   8.5 (Berkeley) 1/21/94
*/

#define TARGET_EPERM 1      /* Operation not permitted */
#define TARGET_ENOENT 2     /* No such file or directory */
#define TARGET_ESRCH 3      /* No such process */
#define TARGET_EINTR 4      /* Interrupted system call */
#define TARGET_EIO 5        /* Input/output error */
#define TARGET_ENXIO 6      /* Device not configured */
#define TARGET_E2BIG 7      /* Argument list too long */
#define TARGET_ENOEXEC 8    /* Exec format error */
#define TARGET_EBADF 9      /* Bad file descriptor */
#define TARGET_ECHILD 10    /* No child processes */
#define TARGET_EDEADLK 11   /* Resource deadlock avoided */
#define TARGET_ENOMEM 12    /* Cannot allocate memory */
#define TARGET_EACCES 13    /* Permission denied */
#define TARGET_EFAULT 14    /* Bad address */
#define TARGET_ENOTBLK 15    /* Block device required */
#define TARGET_EBUSY 16     /* Device busy */
#define TARGET_EEXIST 17    /* File exists */
#define TARGET_EXDEV 18     /* Cross-device link */
#define TARGET_ENODEV 19    /* Operation not supported by device */
#define TARGET_ENOTDIR 20   /* Not a directory */
#define TARGET_EISDIR 21    /* Is a directory */
#define TARGET_EINVAL 22    /* Invalid argument */
#define TARGET_ENFILE 23    /* Too many open files in system */
#define TARGET_EMFILE 24    /* Too many open files */
#define TARGET_ENOTTY 25    /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY 26   /* Text file busy */
#define TARGET_EFBIG 27 /* File too large */
#define TARGET_ENOSPC 28 /* No space left on device */
#define TARGET_ESPIPE 29 /* Illegal seek */
#define TARGET_EROFS 30 /* Read-only file system */
#define TARGET_EMLINK 31 /* Too many links */
#define TARGET_EPIPE 32 /* Broken pipe */

/* math software */
#define TARGET_EDOM 33 /* Numerical argument out of domain */
#define TARGET_ERANGE 34 /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET_EINPROGRESS 36 /* Operation now in progress */
#define TARGET_EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39 /* Destination address required */
#define TARGET_EMGSIZE 40 /* Message too long */
#define TARGET_EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48 /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
#define TARGET_ENOBUFS 55 /* No buffer space available */
#define TARGET_EISCONN 56 /* Socket is already connected */
#define TARGET_ENOTCONN 57 /* Socket is not connected */
#define TARGET_ENOTUNREACH 58 /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59 /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60 /* Operation timed out */
#define TARGET_ECONNREFUSED 61 /* Connection refused */

#define TARGET_ELOOP 62 /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63 /* File name too long */
#define TARGET_EHOSTDOWN 64 /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66 /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67 /* Too many processes */
#define TARGET_EUSERS 68 /* Too many users */
#define TARGET_EDQUOT 69 /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70 /* Stale NFS file handle */
#define TARGET_EREMOTE 71 /* Too many levels of remote in path */
#define TARGET_EBADRPC 72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */

#define TARGET_ENOLCK 77 /* No locks available */
#define TARGET_ENOSYS 78 /* Function not implemented */

#define TARGET_EFTYPE 79 /* Inappropriate file type or format */
#define TARGET_EAUTH 80 /* Authentication error */
#define TARGET_ENEEDAUTH 81 /* Need authenticator */
#define TARGET_EIPSEC 82 /* IPsec processing failure */
#define TARGET_ENOATTR 83 /* Attribute not found */
#define TARGET_EILSEQ 84 /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85 /* No medium found */
#define TARGET_EMEDIUMTYPE 86 /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87 /* Conversion overflow */
#define TARGET_ECANCELLED 88 /* Operation canceled */
#define TARGET_EIDRM 89 /* Identifier removed */
#define TARGET_ENOMSG 90 /* No message of desired type */
#define TARGET_ELAST 90 /* Must be equal largest errno */

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*
*      @(#)mman.h      8.2 (Berkeley) 1/9/95
*/

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080  /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100  /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK        0x0400  /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC       0x0800  /* page to but do not sync underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK     0x1ff7


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*
* @(#)mman.h 8.2 (Berkeley) 1/9/95
*/
#define TARGET_NETBSD_MAP_INHERIT 0x0080  /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */
#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */
#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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* SUCH DAMAGE.
* 
* @(#)mman.h 8.1 (Berkeley) 6/2/93
*/

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

A. HISTORY OF THE SOFTWARE
============================

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

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

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

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

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Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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//
//@ NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ *
/*
* System call numbers.
* created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
*/

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
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#define TARGET_NETBSD_NR_write 4
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#define TARGET_NETBSD_NR_close 6
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#define TARGET_NETBSD_NR_unlink 10
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from qbase/src/3rdparty/libjpeg/README:

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#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
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src/pcf/module.mk
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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.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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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
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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.)

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.

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a) Accompany the work with the complete corresponding
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that
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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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c) 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.

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.

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Version 3, 29 June 2007

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The code in this library is an extension of Bala Vatti's clipping algorithm: "A generic solution to polygon clipping"

Computer graphics and geometric modeling: implementation and algorithms
By Max K. Agoston
Springer; 1 edition (January 4, 2005)
http://books.google.com/books?q=vatti+clipping+agoston

See also:
"Polygon Offsetting by Computing Winding Numbers"
Paper no. DETC2005-85513 pp. 565-575
http://www.me.berkeley.edu/~mcmains/pubs/DAC05OffsetPolygon.pdf

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- Adapted from Ruby on Rails - http://dev.rubyonrails.org/browser/spinoffs/prototype/src
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------------------------------------------------------------------------

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Alexander Terekhov (TEREKHOV at de dot ibm dot com) contributed re-implemented and improved read-write locks;
(with Louis Thomas) re-implemented and improved condition variables;
enhancements to semaphores;
enhancements to mutexes;
new mutex implementation in 'futex' style;
suggested a robust implementation of pthread_once.
similar to that implemented by V.Kliatchko;

system clock change handling re CV timeouts;

bug fixes.

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Changes to make C version usable with C++ applications;

re-implemented mutex routines to avoid Win32 mutexes

and TryEnterCriticalSection;

procedure to fix Mingw32 thread-safety issues.

Franco Bezfranco dot bez at gmx dot de

procedure to fix Mingw32 thread-safety issues.

Louis Thomaslthomas at arbitrade dot com

(with Alexander Terekhov) re-implemented and improved

condition variables.

David Korngdk at research dot att dot com

Ported to UWIN.

Phil Frisbie, Jr.phil at hawksoft dot com

Bug fix.

Ralf BreseRalf dot Brese at pdb4 dot siemens dot de

Bug fix.

prionx at junodot com prionx at junodot com

Bug fixes.

Max Woodburyntew at cds dot duke dot edu

POSIX versioning conditionals;

reduced namespace pollution;

idea to separate routines to reduce statically

linked image sizes.

Rob Fannerrfanner at stonethree dot com

Bug fix.

Michael Johnson michaelj at maine dot rr dot com

Bug fix.

Nicolas Barryboozai at yahoo dot com

Bug fixes.

Piet van Bruggenpietvb at newbridges dot nl

Bug fix.

Makoto Katoraven at oldskool dot jp

AMD64 port.

Panagiotis E. Hadjidoukaspeh at hpclab dot ceid dot upatras dot gr

Contributed the QueueUserAPCEx package which

makes preemptive async cancelation possible.

Will Bryantwill dot bryant at ecosm dot com

Borland compiler patch and makefile.

Anuj Goyalanuj dot goyal at gmail dot com

Port to Digital Mars compiler.

Gottlob Fregegottlobfrege at gmail dot com

re-implemented pthread_once (version 2)

(pthread_once cancellation added by rpj).

Vladimir Kliatchkovladimir at kliatchko dot com

reimplemented pthread_once with the same form
as described by A. Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.

PCRE is a library of functions to support regular expressions whose syntax
and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library
started out as a copy of PCRE, many of the features of PCRE have been
removed.

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Version 3, 29 June 2007

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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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.)

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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 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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   (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.)

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

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e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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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 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.

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.

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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.

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Version 3, 29 June 2007

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Version 3, 29 June 2007

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1.883 re2c-native 0.16-r0

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/* Skeleton implementation for Bison's Yacc-like parsers in C


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/* C LALR(1) parser skeleton written by Richard Stallman, by
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variables, as they might otherwise be expanded by user macros.
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/* A Bison parser, made by GNU Bison 2.4.3. */

/* Skeleton interface for Bison's Yacc-like parsers in C */


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# Wrapper for compilers which do not understand '-c -o'.

scriptversion=2012-10-14.11; # UTC

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1.892 rpm-native
4.13.90+gitAUTOINC+a8e51b3bb0-r0

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I would like to thank following people for helping to bring RRDtool into existence.

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Alan Lichty <alan_lichty with eli.net>
Alan Milligan <alan.milligan@last-bastion.net> Python bindings
Alex van den Bogaerdt <alex with ergens.op.het.net> (rrd_resize.c and more)
Amos Shapira <amos with gezernet.co.il>
Andreas Kroomaa <andre with ml.ee>
Andrew Turner <turner with mint.net> (LAST consolidator)
Aaron Gallagher <__ with habnab.it> MEDIAN operator
Benny Baumann <benbe with geshi.org) rrd_dump with callback support
Bernard Fischer <bfischer with syslog.ch> 64bit stuff, --alt-autoscale-max
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David L. Barker <dave with ncomtech.com> xport function bug fixes
Evan Miller <emiller with imvu.com> Multiplicative HW Enhancements
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Florian octo Forster <rrdtool nospam.verplant.org> rrd_restore libxml2 rewrite, deprecated function export, rrdcached
Fidelis Assis <fidelis pobox.com> lua bindings
Henrik Storn <henrik with hswn.dk> functions for min/max values of data in graph
Hermann Hueni <hueni with glue.ch> (SunOS porting)
Jakob Ilves <jilves with se.oracle.com> HPUX 11
Jeff R. Allen <jeff.allen with acm.org> (autoconfigure, portability)
Jeremy Fischer <jeremy with pobox.com> (Makefile changes & RPM builds)
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Joey Miller <joeym with inficad.com>php3 and php4 bindings
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Kevin Brintnall <kbrint with rufus.net> bugfixes in and additions to rrdcached, including journaling support
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Mike Mitchell <mcm with unix.sas.com>
Mike Slicfak <slif with bellsouth.net> many rrdtool-1.1.x fixes
Oleg Cherevko <olwi with icyb.kiev.ua>
Otmar Lendl <O.Lendl with Austria.EU.net> (lots of bugfixes)
Pablo Sanchez <pablo at blueoakdb.com> (CDEF vs VDEF)
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Paul Joslin <Paul.Joslin with sdrc.com>
Peter Speck <speck with vitality.dk> eps/svg/pdf file format code in rrdtool-1.x
Peter Stamfest <peter with stamfest.at> initial multi-thread support
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I would like to thank following people for helping to bring RRDtool into existence.

Alan Lichty <alan_lichty with eli.net>
Alan Milligan <alan.milligan@last-bastion.net> Python bindings
Alex van den Bogaerd <alex with ergens.op.het.net> (rrd_resize.c and more)
Amos Shapira <amos with gezernet.co.il>
Andreas Kroomaa <andre with ml.ee>
Andrew Turner <turner with mint.net> (LAST consolidator)
Aaron Gallagher <_ with habnab.it> MEDIAN operator
Benny Baumann <benbe with geshi.org>) rrd_dump with callback support
Bernard Fischer <bfischer with syslog.ch> 64bit stuff, --alt-autoscale-max
Bernhard Fischer <rep dot dot dot nop with gmail.com> MMAP rewrite
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Dan Dunn <dandunn with computer.org>
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Dave Bodenstab <dave@bodenstab.org> AT style time in update, tclfixes
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Frank Strauss <strauss with escape.de> TCL bindings
Florian octo Forster <rrdtool nosamp.verplant.org> rrd_restore libxml2 rewrite, deprecated function export, rrdcached
Fidelis Assis <fidelis pobox.com> lua bindings
Henrik Storner <henrik with hswn.dk> functions for min/max values of data in graph
Hermann Hueni <hueni with glue.ch> (SunOS porting)
Jakob Ilves <jilves with se.oracle.com>) HPUX 11
Jeff R. Allen <jeff.allen with acm.org> (autoconfigure, portability)
Jeremy Fischer <jeremy with pobox.com> (Makefile changes & RPM builds)
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Kevin Brintnall <kbrint with rufus.net> bugfixes in and additions to rrdcached, including journaling support
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Matt Chambers <matthew.chambers with vanderbilt.edu> --full-size-mode for rrdgraph
Melchior Rabe <rrdtool at mраб.de> -- legend position patch
McCreary mccreary with xohanon.colorado.edu
Mike Mitchell <mcm with unix.sas.com>
Mike Sli ficak <slif with bellsouth.net> many rrdtool-1.1.x fixes
Oleg Cher evko <olwi with icyb.kiev.ua>
Otmar Lendl <O.Lendl with Austria.EU.net> (lots of bugfixes)
Pablo Sanchez <pablo at blueoakdb.com> (CDEF vs VDEF)
Patrick Cherry <patrick with bytemark.co.uk>
Paul Joslin <PaulJoslin with sdr.com>
Peter Speck <speck with vitality.dk> eps/svg/pdf file format code in rrdtool-1.x
Peter St am fest <peter with stamfest.at> initial multi-thread support
Peter Breitenlohe ner <peb with mppmu.mpg.de> many patches for rrdtool 1.2.x
Philippe.Simonet <Philippe.Simonet with swisscom.com> (NT porting)
Poul-Henning Kamp <phk with freebsd.org> CDEF enhancements
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Roman Mullally <ronan in 4L.ie>
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Steen Linden <Steen.Linden with ebone.net>
Sebastian Harl <sh at tokkee.org> debian packaging, rrdcached fixes and enhancements
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Nicola Worthington <nicolaw@cpan.org>
Wegmann, Christof <Christof.Wegmann@exitgames.com> 1.3/trunk win32 port

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1.896 rsync-native 3.1.2

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```ruby
require 'rubygems/text'
class Gem::Licenses
  extend Gem::Text

  NONSTANDARD = 'Nonstandard'.freeze

  # Software Package Data Exchange (SPDX) standard open-source software
  # license identifiers
  IDENTIFIERS = %w(0BSD AAL ADSL AFL-1.1 AFL-1.2 AFL-2.0)
```
AFL-2.1
AFL-3.0
AGPL-1.0
AGPL-3.0
AMDPLPA
AML
AMPAS
ANTLR-PD
APAFML
APL-1.0
APSL-1.0
APSL-1.1
APSL-1.2
APSL-2.0
Abstyles
Adobe-2006
Adobe-Glyph
Afmparse
Aladdin
Apache-1.0
Apache-1.1
Apache-2.0
Artistic-1.0
Artistic-1.0-Perl
Artistic-1.0-cl8
Artistic-2.0
BSD-2-Clause
BSD-2-Clause-FreeBSD
BSD-2-Clause-NetBSD
BSD-3-Clause
BSD-3-Clause-Attribution
BSD-3-Clause-Clear
BSD-3-Clause-LBNL
BSD-4-Clause
BSD-4-Clause-UC
BSD-Protection
BSL-1.0
Bahyph
Barr
Beerware
BitTorrent-1.0
BitTorrent-1.1
Borceux
CATOSL-1.1
CC-BY-1.0
CC-BY-2.0
CC-BY-2.5
CC-BY-3.0
D-FSL-1.0
DOC
DSDP
Dotseqn
ECL-1.0
ECL-2.0
EFL-1.0
EFL-2.0
EPL-1.0
EUDatagrid
EUPL-1.0
EUPL-1.1
Entessa
ErlPL-1.1
Eurosym
FSFUL
FSFULLR
FTL
Fair
Frameworkx-1.0
FreeImage
GFDL-1.1
GFDL-1.2
GFDL-1.3
GL2PS
GPL-1.0
GPL-2.0
GPL-3.0
Giftware
Glide
Gluixe
HPND
HaskellReport
IBM-pibs
ICU
IIG
IPA
IPL-1.0
ISC
ImageMagick
Imlib2
Intel
Intel-ACPI
Interbase-1.0
JSON
JasPer-2.0
LGPL-2.0
LGPL-2.1
LGPL-3.0
LGPLLR
LPL-1.0
LPL-1.02
LPPL-1.0
LPPL-1.1
LPPL-1.2
LPPL-1.3a
LPPL-1.3c
Latex2e
Leptonica
Libpng
MIT
MIT-CMU
MIT-advertising
MIT-enna
MIT-feh
MITNFA
MPL-1.0
MPL-1.1
MPL-2.0
MPL-2.0-no-copyleft-exception
MS-PL
MS-RL
MTLL
MakeIndex
MirOS
Motosoto
Multics
Mup
NASA-1.3
NBPL-1.0
NCSA
NGPL
NLPL
NOSL
NPL-1.0
NPL-1.1
NPOSIL-3.0
NRL
NTP
Naumen
NetCDF
Newsletr
Nokia
Noweb
Nunit
OCLC-2.0
ODbL-1.0
OFL-1.0
OFL-1.1
OGTSL
OLDAP-1.1
OLDAP-1.2
OLDAP-1.3
OLDAP-1.4
OLDAP-2.0
OLDAP-2.0.1
OLDAP-2.1
OLDAP-2.2
OLDAP-2.2.1
OLDAP-2.2.2
OLDAP-2.3
OLDAP-2.4
OLDAP-2.5
OLDAP-2.6
OLDAP-2.7
OLDAP-2.8
OML
OPL-1.0
OSL-1.0
OSL-1.1
OSL-2.0
OSL-2.1
OSL-3.0
OpenSSL
PDDL-1.0
PHP-3.0
PHP-3.01
Plexus
PostgreSQL
Python-2.0
QPL-1.0
Qhull
RHeCos-1.1
RPL-1.1
RPL-1.5
RPSL-1.0
RSA-MD
RSCPL
Rdisc
Ruby
SAX-PD
SCEA
SGI-B-1.0
SGI-B-1.1
SGI-B-2.0
SISSL
SISSL-1.2
SMLNJ
SNIA
SPL-1.0
SWL
Saxpath
Sendmail
SimPL-2.0
Sleepycat
Spencer-86
Spencer-94
Spencer-99
SugarCRM-1.1.3
TCL
TMate
TORQUE-1.1
TOSL
UPL-1.0
Unicode-TOU
Unlicense
VOSTROM
VSL-1.0
Vim
W3C
W3C-19980720
WTFPL
Watcom-1.0
Wsuipa
X11
XFree86-1.1
XSkat
Xerox
Xnet
YPL-1.0
YPL-1.1
ZPL-1.1
ZPL-2.0
ZPL-2.1
Zed
Zend-2.0
Zimbra-1.3
Zimbra-1.4
Zlib
bzip2-1.0.5
bzip2-1.0.6
diffmark
dvipdfm
eGenix
gSOAP-1.3b
gnuplot
iMatix
libtiff
mpich2
psfrag
psutils
xinetd
xpp
zlib-acknowledgement
).freeze

REGEXP = %r{
  \A
  (  
    #{Regexp.union(IDENTIFIERS)}
    \+?
    (ls WITH \s.+)?
    | #{NONSTANDARD}
  )
  \Z
}ox.freeze

def self.match?(license)
  !REGEXP.match(license).nil?
end

def self.suggestions(license)
  by_distance = IDENTIFIERS.group_by do |identifier|
    levenshtein_distance(identifier, license)
  end
  lowest = by_distance.keys.min
  return unless lowest < license.size
  by_distance[lowest]
end

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can/build_assert/build_assert.h
can/check_type/check_type.h
can/container_of/container_of.h
ccan/str/str.h

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include/ruby/oniguruma.h:
regcomp.c:
regenc.[ch]:
regerror.c:
regexec.c:
regint.h:
regparse.[ch]:
enc/ascii.c
enc/big5.c
enc/cp949.c
enc/emacs_mule.c
enc/encdb.c
enc/euc_jp.c
enc/euc_kr.c
enc/euc_tw.c
enc/gb18030.c
enc/gb2312.c
enc/gbk.c
enc/iso_8859_1.c
enc/iso_8859_10.c
enc/iso_8859_11.c
enc/iso_8859_13.c
enc/iso_8859_14.c
enc/iso_8859_15.c
enc/iso_8859_16.c
enc/iso_8859_2.c
enc/iso_8859_3.c
enc/iso_8859_4.c
enc/iso_8859_5.c
enc/iso_8859_6.c
enc/iso_8859_7.c
enc/iso_8859_8.c
enc/iso_8859_9.c
enc/koi8_r.c
enc/koi8_u.c
enc/shift_jis.c
enc/unicode.c
enc/us_ascii.c
enc/utf_16be.c
enc/utf_16le.c
enc/utf_32be.c
enc/utf_32le.c
enc/utf_8.c
enc/windows_1251.c

Oniguruma ---- (C) K.Kosako <sndgk393 AT ybb DOT ne DOT jp>

http://www.geocities.jp/kosako3/oniguruma/
http://www.ruby-lang.org/cgi-bin/cvsweb.cgi/oniguruma/
http://www.freebsd.org/cgi/cvsweb.cgi/ports/devel/oniguruma/

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enc/trans/GB/UCS%GB12345.src:

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enc/trans/JIS/JISX0201-KANA%UCS.src:
enc/trans/JIS/JISX0208@1990%UCS.src:
enc/trans/JIS/JISX0212%UCS.src:
enc/trans/JIS/UCS%JISX0201-KANA.src:
enc/trans/JIS/UCS%JISX0208@1990.src:
enc/trans/JIS/UCS%JISX0212.src:

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enc/trans/JIS/JISX0213-1%UCS@BMP.src:
enc/trans/JIS/JISX0213-1%UCS@SIP.src:
enc/trans/JIS/JISX0213-2%UCS@BMP.src:
enc/trans/JIS/JISX0213-2%UCS@SIP.src:

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enc/trans/JIS/UCS%BMP%JISX0213-2.src:
enc/trans/JIS/UCS%SIP%JISX0213-1.src:
enc/trans/JIS/UCS@JISX0213-2.src:

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tool/config.sub:

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win32/win32.[ch]:

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random.c

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A C-program for MT19937, with initialization improved 2002/2/10.
Coded by Takuji Nishimura and Makoto Matsumoto.
This is a faster version by taking Shawn Cokus's optimization,
Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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email: matumoto@math.keio.ac.jp

vm_dump.c:procstat_vm

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$FreeBSD: head/usr.bin/procstat/procstat_vm.c 261780 2014-02-11 21:57:37Z jhb$

vsnprintf.c:

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IMPORTANT NOTE:
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st.c:
strftime.c:
include/ruby/st.h:
missing/acosh.c:
missing/alloca.c:
missing/dup2.c:
missing/erf.c:
missing/finite.c:
missing/hypot.c:
missing/isinf.c:
missing/isnan.c:
missing/lgamma_r.c:
missing/memcmp.c:
missing/memmove.c:
missing/strchr.c:
missing/strerror.c:
missing/strerror.c:
missing/strtol.c:
missing/tgamma.c:
ext/date/date_strftime.c:
ext/digest/sha1/sha1.[ch]:
ext/sdbm/_sdbm.c:
ext/sdbm/sdbm.c:
ext/sdbm/sdbm.h:

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missing/setproctitle.c

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missing/strlcat.c
missing/strlcpy.c

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missing/langinfo.c

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ext/digest/md5/md5.[ch]:

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L. Peter Deutsch
ghost@aladdin.com

ext/digest/rmd160/rmd160.[ch]:

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AUTHOR:   Antoon Bosselaers, ESAT-COSIC
          (Arranged for libc by Todd C. Miller)
DATE:     1 March 1996

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ext/digest/sha2/sha2.[ch]:

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ext/socket/getaddrinfo.c:

ext/socket-getnameinfo.c:

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ext/win32ole/win32ole.c:

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= Contributors to Ruby

The following list might be incomplete. Feel free to add your name if your patch was accepted into Ruby.

== A

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AKIYOSHI, Masamichi (akiyoshi)
* committer
  * He had maintained the VMS support on 2003-2004.

Muhammad Ali
* wrote rdoc for Fiber

Minero Aoki (aamine)
* committer
  * He is the maintainer of:
    * fileutils
    * net/http, net/https
    * net/pop
    * net/smtp
    * racc
    * ripper
    * strscan

Wakou Aoyama (wakou)
* committer
  * He was the maintainer of some standard libraries.

Koji Arai
* committer

arton
* He is the distributor of ActiveScriptRuby and experimental 1.9.0-x installers for win32.
* Wrote patches for win32ole, gc.c, tmpdir.rb

== B

Daniel Berger
* a patch for irb
* documentation
* He wrote forwardable.rb

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* He is the maintainer of scanf

Ken Bloom
* a patch for REXML.

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* a patch for soap

Alexey Borzenkov
* a patch for mkmf.rb

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Dirkjan Bussink
* a patch for date.rb

Daniel Bovensiepen
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* a patch for irb

== C

Brian Candler
* a patch for configure.in, net/telnet

keith cascio
* a patch for optparse.rb

Frederick Cheung
* a patch for test/ruby/test_symbol.rb

Christoph
* patches for set.rb

Sean Chittenden
* patches for net/http, cgi

William D. Clinger
* ruby_strtod is based on his paper.

== D

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* He wrote and is the maintainer of miniunit

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* committer

Zach Dennis

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* committer
* M17N

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* patches for rdoc

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* a patch for lib/benchmark.rb

== E

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* He wrote and is the maintainer of base64 library (1.9)
* did much upon YARV compiler.

erlercw
* wrote Integer::gcd2

== F

Frank S.Fejes
* a patch for net/pop

Fundakowski Feldman
* a patch for process.c

Mauricio Fernandez
* patches for parse.y

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* M17N

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* He is the maintainer of cgi/*

FUKUMOTO, Atsushi
* a patch for tracer.rb

Shota Fukumori (sorah)
* committer
* #4415 parallel unit/test

Tadayoshi Funaba (tafd)
* committer
* He wrote and is the maintainer of
t* date
* parsedate (1.8)
* He ported rational.rb and complex.rb, which 1.8 contains, into rational.c and complex.c of 1.9.

== G

David M. Gay
* ruby_strtod

Florian Gilcher
* documentation

GOTOU, Kentaro (gotoken)
* committer
* He wrote benchmark.rb
* He is the maintainer of:
* benchmark.rb
* open3

GOTOU, Yuuzou (gotoyuzo)
* committer

James Edward Gray II (jeg2)
* committer
* He wrote the faster implementation of CSV and is the maintainer of csv.
* Wrote documentation for rdoc

== H

Phil Hagelberg
* patch for ruby-mode.el's documentation.
Kirk Haines (wyhaines)
* committer
* the maintainer of ruby_1_8_6 branch

Shinichiro Hamaji
* fixed memory leaks (marshal.c, string.c)

Shin-ichiro HARA
* the developer and the sysop of ruby-{dev,list,core,talk} archive.
* a patch for numeric.c

Chris Heath (traumdeutung)
* a patch for proc.c

HIROKAWA Hisashi
* fixed socket/socket.c

Daniel Hob
* He wrote:
  * SMTP-TLS support for net/smtp.
  * POP3S support

Eric Hodel (drbrain)
* committer
* He is the maintainer of:
* rdoc
* ri
* rubygems

Erik Hollensbe
* a patch for delegate.rb

Johan Holmberg
* a patch for dir.c
* documentation

Erik Huelsmann

Dae San Hwang
* built a continuous integration environment on OpenSolaris.

== I

Nobuhiro IMAI
* a patch for logger.rb

"incorporate"
* a patch for sprintf.c

Keiju Ishitsuka (keiju)
* committer
* He wrote and is the maintainer of:
  * cmath.rb (1.9)
  * complex.rb (1.8)
  * e2mmap.rb
  * forwardable.rb
  * irb
  * mathn
  * matrix.rb
  * mutex_m.rb
  * rational.rb (1.8)
  * sync.rb
  * shell/*
  * thwait.rb
  * tracer.rb

== J

Curtis Jackson
* missing/dup2.c

Alan Johnson
* a patch for net/ftp

Lyle Johnson
* patches for nkf, bigdecimal, numeric.c

== K

Yoshihiro Kambayashi
* a patch for enc/trans/single_byte.trans.
* He wrote supports for some encodings.

Yutaka Kanemoto
* patches for common.mk, AIX AF_INET6 support

Motoyuki Kasahara
* He wrote getoptlong.rb

Masahiro Kawato
* a patch for shellwords.rb

Wataru Kimura
* a patch for configure.in
Michael Klishin
* patch for make help.

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* a patch for optparse.rb

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* committer
* He is the maintainer of bigdecimal

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* He had maintained the bcc32 support in 2004.

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* documentation

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* committer
* He wrote Oniguruma.

Takehiro Kubo
* patches for dl 64bit support.

Marc-Andre Lafortune (marcandre)
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* patches for hash.c, array.c, thread.c, enumc, string.c, range.c and rdoc documentation.

Hongli Lai
* improved pstore.rb
* patch for tool/file2lastrev.rb.

raspberry lemon
* a patch for webrick/httpproxy.rb.

Christian Loew
* a patch for fileutils.rb

Shugo Maeda (shugo)
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* A system administrator of ruby-lang.org servers.
* He wrote and is the maintainer of:
  * monitor.rb
  * net/ftp
* net/imap

Stephan Maka (mathew)
* documentation

Yukihiro Matsumoto (matz)
* Matz -- the founder, language designer of Ruby.
* committer
* Ruby itself, most of Ruby.
* He is the maintainer of:
  * singleton
  * timeout
  * gdbm
  * sdbm

Konrad Meyer
* documentation

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Todd C. Miller
* missing/strlcat.c
* missing/strlcpy.c

MIYASAKA, Masaru
* a patch for/cgi.rb

Stefan Monnier
* regex.c was fixed with based on his Emacs21 patch.

Marcel Moolenaar
* patches for eval.c and gc.c.

moonwolf
* a patch for REXML, xmlrpc

Hiroshi Moriyama
* a patch for yaml.

Kyosuke Morohashi
* a patch for gem_prelude.rb

Kenta Murata
* patches for json, bignum.c

Akinori MUSHA (knu)
* committer
* He wrote and is the maintainer of:
  * abbrev.rb
  * generator (1.8)
  * enumerator (1.8)
  * set
  * ipaddr.rb
  * digest/*
  * syslog
* He is the branch maintainer of ruby_1_8, the release manager of 1.8 series.

== N

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* a.k.a. the "patch monster"
* He wrote and is the maintainer of:
  * optparse
  * stringio
  * io/wait
  * iconv

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* patches for util.c

Narihiro Nakamura (nari)
* committer
* a.k.a. authorNari
* working at GC

NAKAMURA, Hiroshi (nahi)
* committer
* He is the maintainer of:
  * csv.rb (1.8)
  * logger.rb
  * soap/* (1.8)
  * wsdl/* (1.8)
  * xsd/* (1.8)

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* a.k.a. unak
* He is the maintainer of mswin32 and mswin64 support.

NARUSE, Yui (naruse)
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* a.k.a. "nurse"
* Did much upon m17n.
* He is the maintainer of:
  * json
  * nkf

Christian Neukirchen
* a patch for webrick/httputils

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* committer
* He is the maintainer of
  * xmlrpc (1.8)
  * gserver (1.8)

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* wrote a patch for CVE-2010-0541

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* committer
* a.k.a. znz

Go Noguchi

Martin Nordholts
* misc/rdebug.el

nmu
* a patch for socket

== O

okkez
* He is a sysop of the Ruby Reference Manual Renewal Project.
* fixed ipaddr.rb, ext/etc

Haruhiko Okumura
* some of missing/* is based on his book:
  * missing/erf.c
  * missing/lgamma_r.c
  * missing/lgamma.c

OMAE, jun
* a patch for debug.rb

Eugene Ossintsev
* documentation
Heesob Park
* a patch for win32/win32.c.

pegacorn
* a patch for instruby.rb

Gaston Ramos
* documentation

The Regents of the University of California
* missing/crypt.c
* missing/vsnprintf.c

Sam Roberts
* patch for socket
* documentation

Michal Rokos (michal)
* committer
* He was the maintainer of DJGPP support.

rubikitch
* a patch for io.c

Marcus Rueckert
* a patch for mkconfig.rb.

Run Paint Run Run
* patch for enc/unicode.c
* documentation

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* committer
* He wrote and is the maintainer of REXML.

Kazuo Saito (ksaito)
* committer
* M17N
Tadashi Saito
* patches for test/ruby/test_math.rb, thread_*.c, bignum.c
* working upon BigDecimal.
* did much upon documentation

Masahiro Sakai
* a patch for io.c

Laurent Sansonetti
* a patch for tool/ytab.sed

Jeff Saracco
* documentation

Koichi Sasada (ko1)
* committer
* He wrote YARV.

Hugh Sasse
* a patch for net/http
* documentation

Charlie Savage
* a patch for win32/Makefile.sub

Michael Scholz
* a patch for ruby-mode.el

Arthur Schreiber
* patch for net/http and rdoc.

Masatoshi SEKI (seki)
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* He wrote and is the maintainer of:
* drb/*
* erb
* rinda

Roman Shterenzon
* a patch for open-uri.

Kent Sibilev

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* committer

John W. Small
* He wrote gserver.rb
Yuki Sonoda (yugui)
  * committer
  * She is the maintainer of man/* manual pages and is the release manager of 1.9 series.
  * She wrote prime.rb.
  * A developer and a sysop of redmine.ruby-lang.org.

SOUMA, Yutaka
  * a patch for pack.c.

Tatsuki Sugiura
  * WebDAV support for net/http

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  * committer
  * He is the maintainer of win32ole

sheepman
  * patches for ruby.c, thread.c, stringio, enum.c, webrick, net/http

Siena. (siena)
  * committer

Kirill A. Shutemov
  * a patch for parse.y

Darren Smith
  * a patch for golf_prelude.rb

Richard M. Stallman
  * missing/alloca.c

Robin Stocker
  * documentation

Adam Strzelecki
  * a patch for compile.c

Masashi Sumi
  * improved net/pop.rb

Eric Sunshine
  * NeXT OpenStep, Rhapsody support

Kouhei Sutou (kou)
  * committer
  * He wrote and is the maintainer of rss/*
David Symonds  
* documentation

==

TAKANO Mitsuhiro (takano32)  
* committer  
* He is the maintainer of IA-64 support.  
* BigDecimal

TAKAO, Kouji (kouji)  
* committer  
* He is the maintainer of readline.

Nathaniel Talbott (ntalbott)  
* committer  
* He was the maintainer of test/unit, runit, rubyunit.

TANAKA, Akira (akr)  
* committer  
* Did much upon ml7n.  
* And he is the maintainer of:  
  * open-uri  
  * pathname  
  * pp  
  * resolv-replace  
  * resolv  
  * time  
  * tsort

Takaaki Tateishi (ttate)  
* committer  
* He was the maintainer of dl

Technorama Ltd. (technoroma)  
* committer  
* openssl

Andrew Thompson  
* a patch for socket.c IRIX support.

Dave Thomas (dave)  
* committer  
* a.k.a. the Pragmatic Programmer.  
* He wrote rdoc.

Tietew  
* patches for win32 support
Masahiro Tomita
* a patch for cgi.rb

Jakub Travnik
* a patch for eval.c

Tom Truscott
* missing/crypt.c

== U

UEDA, Satoshi
* a patch for uri

Takaaki Uematsu (uema2)
* committer
* He was the maintainer of WinCE support.

UENO, Katsuhiro (katsu)
* committer
* He is the maintainer of zlib

Hajimu UMEMOTO
* He wrote ipaddr.rb

URABE, Shyouhei (shyouhei)
* committer
* a.k.a. mput.
* He is the branch maintainer of ruby_1_8_6 and ruby_1_8_7
* and is the release manager of 1.8.x-pXXX.

== V

Joel VanderWerf
* a patch for numeric.c

Peter Vanbroekhoven

Corinna Vinschen

== W

wanabe (wanabe)
* committer
* fixed YARV and Oniguruma.

Chun Wang
a patch for time.rb

WATANABE, Hirofumi (eban)
* committer
* He is the maintainer of
  * fools (1.8)
  * tmpdir
  * un
  * Win32API

WATANABE, Tetsuya
* a patch for ruby.c

William Webber (wew)
* committer

Jim Weirich (jim)
* committer
* He wrote Rake.

Nathan Weizenbaum
* fixed misc/ruby-mode.el.

why the lukky stiff (why)
* committer
* He is the maintainer of syck

Caley Woods
* documentation

Gary Wright
* documentation

== X

== Y

Akira Yamada (akira)
* committer
* He is the maintainer of ruby related packages at Debian project.

Keita Yamaguchi
* patches for enum.c, parse.y
* documentation

Hirokazu Yamamoto (ocean)
* committer
Hirotaka Yoshioka  
* a patch for improving SEGV handling

== Z

Aristarkh A Zagorodnikov  
* a patch for io.c

Alexander Zavorine  
* committer  
* He is the maintainer for Symbian OS.

Chiyuan Zhang  
* a patch for misc/ruby-mode.el.

Dee Zsombor (zunda)  
* a patch for thread_pthread.c

Dan Zwell  
* a patch for net/pop

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Version 2, June 1991
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Version 3, 29 June 2007

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An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The “System Libraries” of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
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which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
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such as by intimate data communication or control flow between those
subprograms and other parts of the work.

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

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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
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compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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linked with it, is called a "work that uses the Library". Such a
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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.)

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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
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1.909 shadow-native 4.2.1 -r0

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1.912 shared-mime-info 1.8 -r0

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1.917 sox 14.4.0 -r2

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* Markus Kuhn -- 2007-05-26 (Unicode 5.0)
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#
# check if a file has the proper license in it
#
# USAGE: check-license.py [-C] file1 file2 ... fileN
#
# A 'file' may in fact be a directory, in which case it is recursively searched.
#
# If the license cannot be found, then the filename is printed to stdout.
# Typical usage:
#   $ check-license.py . > bad-files
#
# -C switch is used to change licenses.
# Typical usage:
#   $ check-license.py -C file1 file2 ... fileN
#
import sys, os, re

# Note: Right now, OLD_LICENSE and NEW_LICENSE are the same, because
# #878444 updated all the license blocks. In the future, if we update
# # the license block again, change just NEW_LICENSE and use this script.

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* '''
```python
\* =VICE===================================================================
...

SH_OLD_LICENSE = re.subn(r'(?m)^ *\*', '#', OLD_LICENSE)[0]

# Remember not to do regexp quoting for NEW_LICENSE. Only OLD_LICENSE
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*

SH_NEW_LICENSE = re.subn(r'(?m)^ *\*', '#', NEW_LICENSE)[0]

re_OLD = re.compile(OLD_LICENSE)
re_SH_OLD = re.compile(SH_OLD_LICENSE)
re_EXCLUDE = re.compile(r'automatically generated by SWIG'
+ r'\|Generated from configure\|in'
+ r'|placed into the public domain'
)

c_comment_suffices = ('.c', '.java', '.h', '.cpp', '.hw', '.pas')

# Yes, this is an empty tuple. No types that fit in this category uniformly
# have a copyright block.
# Possible types to add here:
# ('.bat', '.py', '.pl', '.in')
sh_comment_suffices = ()

def check_file(fname, old_re, new_lic):
    s = open(fname).read()
```

```

```
if (not old_re.search(s)
    and not re_EXCLUDE.search(s)):
    print(fname)

def change_license(fname, old_re, new_lic):
s = open(fname).read()
m = old_re.search(s)
if not m:
    print('ERROR: missing old license: %s' % fname)
else:
    s = s[:m.start()] + new_lic + s[m.end():]
    open(fname, 'w').write(s)
    print('Changed: %s' % fname)

def visit(baton, dirname, dircontents):
    file_func = baton
    for i in dircontents:
        # Don't recurse into certain directories
        if i in ('.svn', '.libs'):
            dircontents.remove(i)
            continue

        extension = os.path.splitext(i)[1]
        fullname = os.path.join(dirname, i)

        if os.path.isdir(fullname):
            continue

        if extension in c_comment_suffices:
            file_func(fullname, re_OLD, NEW_LICENSE)
        elif extension in sh_comment_suffices:
            file_func(fullname, re_SH_OLD, SH_NEW_LICENSE)

def main():
    file_func = check_file
    if sys.argv[1] == '-C':
        print('Changing license text...')
        del sys.argv[1]
        file_func = change_license

    for f in sys.argv[1:]:
        if os.path.isdir(f):
            baton = file_func
            for dirpath, dirs, files in os.walk(f):
                visit(baton, dirpath, dirs + files)
        else:
            baton = file_func
            dir, i = os.path.split(f)
1.929 sudo 1.8.20p2-r0

1.929.1 Available under license:

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete—if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysgener, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, YOSHIFUJI
Hieb, Dave
Holloway, Nick
 Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Pele Jorge, Joel
Juhani, Timo
KIUCHI, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashev, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
SATO, Yuichi
Sanchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
The following people have worked to translate sudo into other languages:

- Blittermann, Mario
- Bogusz, Jakub
- Casagrande, Milo
- Castro, Felipe
- Cho, Seong-ho
- Chornoivan, Yuri

Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
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Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
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Toft, Martin
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Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
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Wilk, Jakub
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1.930 swig-native 3.0.12 -r0
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The ccache-zlib patch was downloaded from http://www.gustaebel.de/lars/ccache/

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Historically, the following people contributed to early versions of SWIG. Peter Lomdahl, Brad Holian, Shujia Zhou, Niels Jensen, and Tim Germann at Los Alamos National Laboratory were the first users. Patrick Tullmann at the University of Utah suggested the idea of automatic documentation generation. John Schmidt and Kurtis Bleecker at the University of Utah tested out the early versions. Chris Johnson supported SWIG's development at the University of Utah. John Buckman, Larry Virden, and Tom Schwaller provided valuable input on the first releases and improving the portability of SWIG. David Fletcher and Gary Holt have provided a great deal of input on improving SWIG's Perl5 implementation. Kevin Butler contributed the first Windows NT port.

Early bug reports and patches:

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1.932 sysfsutils 2.1.0-r5

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).

* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Distribution License - Version 1.0</title>
<style type="text/css">
body { size: 8.5in 11.0in; margin: 0.25in 0.5in 0.25in 0.5in; tab-interval: 0.5in; }
p { margin-left: auto; margin-top: 0.5em; margin-bottom: 0.5em; }
.plist { margin-left: 0.5in; margin-top: 0.05em; margin-bottom: 0.05em; }
</style>
</head>
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<title>Miniker 102 manual: Appendix C Copying This Manual</title>

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  <td valign="middle" align="left">[<a href="Document-Permissions.html#Document-Permissions" title="Previous section in reading order"> < </a>]</td>
  <td valign="middle" align="left">[<a href="Document-Permissions.html#Document-Permissions" title="Up section"> Up </a>]</td>
  <td valign="middle" align="left">[<a href="insertcopying.html#insertcopying" title="Next section in reading order"> > </a>]</td>
  <td valign="middle" align="left">[<a href="Ending-a-File.html#Ending-a-File" title="Next chapter"> >> </a>]</td>
  <td valign="middle" align="left"> &nbsp; </td>
  <td valign="middle" align="left"> &nbsp; </td>
  <td valign="middle" align="left"> &nbsp; </td>
  <td valign="middle" align="left"> &nbsp; </td>
  <td valign="middle" align="left">[<a href="index.html#Top" title="Cover (top) of document">Top</a>]</td>
  <td valign="middle" align="left">[<a href="texinfo_toc.html#SEC_Contents" title="Table of contents">Contents</a>]</td>
  <td valign="middle" align="left">[<a href="Command-and-Variable-Index.html#Command-and-Variable-Index" title="Index">Index</a>]</td>
  <td valign="middle" align="left">[<a href="texinfo_abt.html#SEC_About" title="About (help)"> ? </a>]<td></td>
</tr></table>

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<a name="g_t_0040copying_003a-Declare-copying-permissions"></a>
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<meta name="resource-type" content="document">
<meta name="distribution" content="global">
<meta name="Generator" content="texi2html">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<style type="text/css">
 a.summary-letter {text-decoration: none}
blockquote.smallquotation {font-size: smaller}
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```
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```

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\begin{verbatim}
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@end ifplaintext
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@end insertcopying
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\begin{table}
\begin{tabular}{|l|l|}
\hline
|   |   |
\hline
3.4.1 \begin{verbatim}
@titlepage
@end titlepage
\end{verbatim} & Create a title for the printed document. \\
|   |   |
\hline
3.4.2 \begin{verbatim}
@titlefont \center \sp
@end titlefont \center \sp
\end{verbatim} & The \begin{verbatim}
@titlefont \center \sp
@end titlefont \center \sp
\end{verbatim} commands. \\
|   |   |
\hline
3.4.3 \begin{verbatim}
@title \subtitle \author
@end title \subtitle \author
\end{verbatim} & The \begin{verbatim}
@title \subtitle \author
@end title \subtitle \author
\end{verbatim} commands. \\
|   |   |
\hline
3.4.4 Copyright Page & How to write the copyright notice and include copying permissions. \\
|   |   |
\hline
3.4.5 Heading Generation & Turn on page headings after the title and copyright pages. \\
|   |   |
\hline
3.4.6 The \begin{verbatim}
@headings
@end headings
\end{verbatim} Command & An option for turning headings on and off and double or single sided printing. \\
|   |   |
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@end quotation
@end copying
\end{verbatim}

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Next: insertcopying
Up: Document Permissions
[Table of contents]
[Index]

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</p>

<a name="index-vskip-TeX-vertical-skip"></a>

<a name="index-filll-TeX-dimension"></a>

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</p>

<div class="example">
<pre class="example">@vskip 0pt plus 1filll</pre>
</div>

<p>This is a TeX command that is not supported by the Info formatting commands. The `<code>@vskip</code>` command inserts whitespace. The `<samp>0pt plus 1filll</samp>` means to put in zero points of mandatory whitespace, and as much optional whitespace as needed to push the following text to the bottom of the page. Note the use of three `<samp>l</samp>` in the word &lsquo;filll&rsquo;: this is correct.

</p>

</div class="example">
<pre class="example">@insertcopying</pre>
</div>

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</p>

<p>Here is an example putting all this together:

</p>

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<pre class="example">@titlepage
...@page
@vskip 0pt plus 1filll
@insertcopying

Published by ...</pre>
</div>

<p>Cover art by ...</p>

@end titlepage
</pre></div>
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```
@ifplaintext
  @titlefont @center @sp
@end ifplaintext
```

includes this when writing plain text (&lsquo;&lt;samp>--no-headers</samp>&rsquo;), along with an

```
@includecopying
```

Table

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<thead>
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<th>Titlepage-like Information</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
<td><code>@title</code> <code>@subtitle</code> <code>@author</code></td>
</tr>
<tr>
<td><code>@copyright</code></td>
</tr>
<tr>
<td><code>@endtitlepage</code></td>
</tr>
<tr>
<td><code>@headings on off</code></td>
</tr>
</tbody>
</table>

Create a title for the printed document.

The `@titlefont`, `@center`, and `@sp` commands.

The `@title`, `@subtitle`, and `@author` commands.

How to write the copyright notice and include copying permissions.

Turn on page headings after the title and copyright pages.

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==================================

In hard copy output, the manual's name and author are usually printed on a title page. Copyright information is usually printed on the back of the title page.

The title and copyright pages appear in the printed manual, but not in the Info file. Because of this, it is possible to use several slightly obscure TeX typesetting commands that cannot be used in an Info file. In addition, this part of the beginning of a Texinfo file contains the text of the copying permissions that appears in the printed manual.

You may wish to include titlepage-like information for plain text output. Simply place any such leading material between @ifplaintext and @end ifplaintext; makeinfo includes this when writing plain text ("--no-headers"), along with an @insertcopying.

* titlepage:: Create a title for the printed document.
* titlefont center sp:: The @titlefont, @center, and @sp commands.
* title subtitle author:: The @title, @subtitle, and @author commands.
* Copyright:: How to write the copyright notice and include copying permissions.
* end titlepage:: Turn on page headings after the title and copyright pages.
* headings on off:: An option for turning headings on and off and double or single sided printing.

13.5 Inserting TeX and the Copyright Symbol
================================================

The logo `TeX' is typeset in a special fashion and it needs an @-command. The copyright symbol, `(C)', is also special. Each of these commands is followed by a pair of braces, `\{ \}', without any whitespace between the name of the command and the braces.
Appendix J Copying This Manual

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3.3.1 @copying: Declare copying permissions

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

The @copying command should be given very early in the document; right after the header material (see Texinfo File Header) is the recommended location. It conventionally consists of a sentence or two about what the program is, the legal copyright line, and the copying permissions. Here is a skeletal example:

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@end quotation
@end copying

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<link href="#Concept-index" rel="next" title="Concept index">
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blockquote.smallquotation {font-size: smaller}
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div.example {margin-left: 3.2em}
div.lisp {margin-left: 3.2em}
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span.nolinebreak {white-space:pre}
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ul.no-bullet {list-style: none}
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CVS and the Real World.

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CVS can handle binary files
How CVS helps a group of developers
Policy questions for revision management
CVS can include the revision inside the file
Tracking third-party sources
References.

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CVS commands share some things

Quick reference to CVS commands

Reference manual for the Administrative files

All environment variables which affect CVS

Upgrading CVS versions

Some tips when nothing works

Some of the contributors to this manual

Dealing with bugs in CVS or this manual

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@uref{http://www.mathematik.uni-kl.de/ftp/pub/Math/Singular/}  
@item Cygwin  
@uref{http://www.cygwin.com/}  
@item Xemacs  
@uref{http://www.xemacs.org}  
@end table
@end ifset

@heading Acknowledgements

The development of @sc{Singular} is directed and coordinated by Gert-Martin Greuel, Gerhard Pfister, and Hans Sch@"onemann.
Currently, the \texttt{Singular} team has the following members:
Olaf Bachmann,
Anne Fr"ubis-Kr"uger,
Thomas Keilen,
Kai Kr"uger,
Christoph Lossen,
Viktor Levandovskyy,
Wilfred Pohl,
Mathias Schulze,
Eric Westenberger,
and
Tim Wichmann.

Past members of the \texttt{Singular} team are:
Hubert Grassmann,
Wolfgang Neumann,
Jens Schmidt,
R"udiger Stobbe.

Further contributions to \texttt{Singular} were made by:
Thomas Bayer,
Isabelle Bermejo,
Stephan Endrass,
Jose Ignacio Farran Martin,
Wolfram Decker,
Philippe Gimenez,
Christian Gorzel,
Agnes Heydtmann,
Dietmar Hillebrand,
Tobias Hirsch,
We should like to acknowledge the financial support given by
the Volkswagen-Stiftung,
the Deutsche Forschungsgemeinschaft
and the Stiftung für Innovation des Landes Rheinland-Pfalz
to the @sc{Singular} project.
\input texinfo @c -*-texinfo-*-

@node Top

texte

@insertcopying

@copying

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@copying

And a second one (?)
copying_not_closed.texi:17: Expected @end copying
copying_not_closed.texi(2) copying_not_closed.texi(3) @node Top
copying_not_closed.texi(4) copying_not_closed.texi(5) texte
copying_not_closed.texi(6) copying_not_closed.texi(7) @insertcopying
copying_not_closed.texi(8) copying_not_closed.texi(9) @copying
copying_not_closed.texi(10) copying_not_closed.texi(11) This is a copyright notice
copying_not_closed.texi(12) copying_not_closed.texi(13)
copying_not_closed.texi(14) @copying
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copying_not_closed.texi(17) copying_not_closed.texi(2)
copying_not_closed.texi(3) @node Top
copying_not_closed.texi(4)
And a second one (?)

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    Lionel Cons <Lionel.Cons@cern.ch> (original author)
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SINGULAR version 3-0-0

University of Kaiserslautern

Department of Mathematics and Centre for Computer Algebra

Authors: G.-M. Greuel, G. Pfister, H. Schoenemann

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============

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Acknowledgements
==================

The development of SINGULAR is directed and coordinated by Gert-Martin
Greuel, Gerhard Pfister, and Hans Scho"nemann.
Currently, the SINGULAR team has the following members: Olaf Bachmann, Anne Fr"{u}bis-Kru"{u}ger, Thomas Keilen, Kai Kru"{u}ger, Christoph Lossen, Victor Levandovskyy, Wilfred Pohl, Mathias Schulze, Eric Westenberger, and Tim Wichmann.

Past members of the SINGULAR team are: Hubert Grassmann, Wolfgang Neumann, Jens Schmidt, Ru"{u}diger Stobbe.

Further contributions to SINGULAR were made by: Thomas Bayer, Isabelle Bermejo, Stephan Endrass, Jose Ignacio Farran Martin, Wolfram Decker, Philippe Gimenez, Christian Gorzel, Agnes Heydtmann, Dietmar Hillebrand, Tobias Hirsch, Martin Lamm, Bernd Martin, Michael Messollen, Thomas Nu"ssler, Moritz Wenk.

We should like to acknowledge the financial support given by the Volkswagen-Stiftung, the Deutsche Forschungsgemeinschaft and the Stiftung fu"r Innovation des Landes Rheinland-Pfalz to the SINGULAR project.

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```html
<code>@vskip 0pt plus 1filll</code>
```

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<title>GNU Texinfo 4.2: Appendix J Copying This Manual</title>
<meta name="description" content="GNU Texinfo 4.2: Appendix J Copying This Manual" />
<meta name="keywords" content="GNU Texinfo 4.2: Appendix J Copying This Manual" />
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<meta name="distribution" content="global" />
<meta name="Generator" content="texi2html" />
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a.summary-letter {text-decoration: none}
blockquote.smallquotation {font-size: smaller}
div.display {margin-left: 3.2em}
div.example {margin-left: 3.2em}
div.lisp {margin-left: 3.2em}
div.smalldisplay {margin-left: 3.2em}
div.smallexample {margin-left: 3.2em}
div.smalllisp {margin-left: 3.2em}
pre.display {font-family: serif}
pre.format {font-family: serif}
-->
Appendix J Copying This Manual

---

Open Source Used in IOS XR Release 7.0.1
GNU Texinfo 4.2: 3.3.1 @copying: Declare copying permissions

a.summary-letter {text-decoration: none}
blockquote.smallquotation {font-size: smaller}
div.display {margin-left: 3.2em}
div.example {margin-left: 3.2em}
div.lisp {margin-left: 3.2em}
div.smalldisplay {margin-left: 3.2em}
div.smalexample {margin-left: 3.2em}
div.smalllisp {margin-left: 3.2em}
pre.display {font-family: serif}
pre.format {font-family: serif}
pre.menu-comment {font-family: serif}
pre.menu-preformatted {font-family: serif}
pre.smalldisplay {font-family: serif; font-size: smaller}
pre.smalexample {font-size: smaller}
pre.smallformat {font-family: serif; font-size: smaller}
pre.smalllisp {font-size: smaller}
span.nocodebreak {white-space:pre}
span.nolinebreak {white-space:pre}
span.roman {font-family:serif; font-weight:normal}
span.sansserif {font-family:sans-serif; font-weight:normal}
ul.no-bullet {list-style: none}

-->

</style>

</head>

<body lang="en" bgcolor="#FFFFFF" text="#000000" link="#0000FF" vlink="#800080" alink="#FF0000">

<a name="copying"></a>
<table class="header" cellpadding="1" cellspacing="1" border="0">
<tr><td valign="middle" align="left">
[<a href="Beginning-a-File.html#Beginning-a-File" title="Beginning of this chapter or previous chapter"> << </a>]
</td>
<td valign="middle" align="left">
[<a href="Document-Permissions.html#Document-Permissions" title="Previous section in reading order"> < </a>]
</td>
<td valign="middle" align="left">
[<a href="Document-Permissions.html#Document-Permissions" title="Up section"> Up </a>]
</td>
<td valign="middle" align="left">
[<a href="insertcopying.html#insertcopying" title="Next section in reading order"> >> </a>]
</td>
</tr></table>

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The \texttt{@copying} command should be given very early in the document; right after the header material (see section \url{texinfo-file-header.html#Texinfo-File-Header}). It conventionally consists of a sentence or two about what the program is, the legal copyright line, and the copying permissions. Here is a skeletal example:

\begin{verbatim}
@example
@copying
This manual is for \texttt{program} (version \texttt{version}), which ...
Copyright \copyright{} \texttt{years} \texttt{copyright-owner}.
@end quotation
@end copying
@end example
\end{verbatim}

Permission is granted to &hellip;
The text of `<code>@copying</code>` is output as a comment at the beginning of Info, HTML, and XML output files. It is `<em>not</em>` output implicitly in plain text or TeX; it's up to you to use `<code>@insertcopying</code>` to emit the copying information. See the next section for details.

In output formats that support it (print and HTML), the `<code>@copyright{}</code>` command generates a `<samp>c</samp>` inside a circle. In Info and plain text, it generates `<samp>(C)</samp>`. The copyright notice itself has the following legally defined sequence:

In output formats that support it (print and HTML), the `<code>@copyright{}</code>` command generates a `<samp>c</samp>` inside a circle. In Info and plain text, it generates `<samp>(C)</samp>`. The copyright notice itself has the following legally defined sequence:

```
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```

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<head><title>GNU Texinfo 4.2: 3.4.4 Copyright Page</title></head>

<body lang="en" bgcolor="#FFFFFF" text="#000000" link="#0000FF" vlink="#800080" alink="#FF0000">

<a name="Copyright"></a>
<table class="header" cellpadding="1" cellspacing="1" border="0">
<tr><td valign="middle" align="left">
[<a href="Beginning-a-File.html#Beginning-a-File" title="Beginning of this chapter or previous chapter"> <a href="Beginning-a-File.html"> << </a></a>]
</td></tr>
</table>

...
By international treaty, the copyright notice for a book must be either on the title page or on the back of the title page. When the copyright notice is on the back of the title page, that page is customarily not numbered. Therefore, in Texinfo, the information on the copyright page should be within \texttt{@titlepage} and \texttt{@end titlepage} commands.

Use the \texttt{@page} command to cause a page break. To push the copyright notice and the other text on the copyright page towards the bottom of the page, use the following incantation after \texttt{@page}:

\begin{verbatim}
@vskip 0pt plus 1filll
\end{verbatim}

This is a TeX command that is not supported by the Info formatting commands. The \texttt{@vskip} command inserts whitespace. The \texttt{\textbackslash vskip 0pt plus 1filll} means to put in zero points of mandatory whitespace, and as much optional whitespace as needed to push the following text to the bottom of the page. Note the use of three \texttt{\textbackslash v} in the word
&lsquo;&lt;samp&gt;filll&lt;/samp&gt;&rsquo;; this is correct.
</p>
<p>To insert the copyright text itself, write &lt;code&gt;@insertcopying&lt;/code&gt; next (see section &lt;a href="Document-Permissions.html#Document-Permissions">Document Permissions</a>):
</p>
<div class="example">
<pre class="example">@insertcopying
</pre></div>
<p>Follow the copying text by the publisher, ISBN numbers, cover art credits, and other such information.</p>
<p>Here is an example putting all this together:
</p>
<div class="example">
<pre class="example">@titlepage
…
@page
@vskip 0pt plus 1filll
@insertcopying
Published by &hellip;
Cover art by &hellip;
@end titlepage
</pre></div>
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<head>
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<meta name="description" content="GNU Texinfo 4.2: 13.5.2 @copyright{} (copy)">
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<title>GNU Texinfo 4.2: 13.5 Inserting TeX and the Copyright Symbol</title>
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<meta name="description" content="GNU Texinfo 4.2: 13.5 Inserting TeX and the Copyright Symbol"/>
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<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
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blockquote.smallquotation {font-size: smaller}
div.display {margin-left: 3.2em}
div.example {margin-left: 3.2em}
div.lisp {margin-left: 3.2em}
div.smalldisplay {margin-left: 3.2em}
div.smallexample {margin-left: 3.2em}
div.smallisp {margin-left: 3.2em}
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pre.format {font-family: serif}
pre.menu-comment {font-family: serif}
pre.menu-preformatted {font-family: serif}
pre.smalldisplay {font-family: serif; font-size: smaller}
pre.smallexample {font-size: smaller}
pre.smallformat {font-family: serif; font-size: smaller}
pre.smallisp {font-size: smaller}
span.nocodebreak {white-space:pre}
span.nolinebreak {white-space:pre}
span.roman {font-family:serif; font-weight:normal}
span.sansserif {font-family:sans-serif; font-weight:normal}
ul.no-bullet {list-style: none}
-->  
</style>
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Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   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
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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
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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.)

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:

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c) 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.

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.

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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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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.
The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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a) The modified work must itself be a software library.

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c) You must cause the whole of the work to be licensed at no
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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.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
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.

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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
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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.)

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SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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This file contains some details about the copyright history of contributions to the UnZip project.
Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.
Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompresseion core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding in an apparatus that performs LZW encoding, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed
otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed. The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

* MoreFiles
* 
* A collection of File Manager and related routines
* 
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
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The following copyright applies to the Mac OS "machin3" decoding code
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* MacBinaryIII.h
* Copyright 1997 Christopher Evans (cevans@poppybank.com)
* Basic encoding and decoding of Macintosh files to the
* MacBinary III spec.
* ----------------------------------------------------------------------
* This source is copyrighted by Christopher Evans (cevans@poppybank.com)
* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
* homepage of Leonard Rosenthal leonardr@netcom.com)

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that this code is freely reusable until we are proved wrong...

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The following copyright applies to the full-featured unreduce.c
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Regarding the first stipulation, Mr. Smith was tracked down in southern
California some years back [Samuel H. Smith, The Tool Shop; as of mid-
May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

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* from Steve P. Miller.

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The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBUTES in the source distribution for a much
more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch],
eexplode.c) was originally written by Mark Adler who submitted it
as public domain code.

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1.963 update-rc.d 0.7 -r5
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The table of CNF1-3 values used to set the CAN bus baudrate were taken from the Seeed studio code at:

https://github.com/Seeed-Studio/CAN_BUS_Shield/

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// The trimming algorithms used (bmm050_bosch_compensate_*) were
// taken from the Bosch BMM050 driver code

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* 
* File : bmm050.h
* 
* Date : 2016/03/17
* 
* Revision : 2.0.5 $
* 
* Usage: Sensor Driver for BMM050 and BMM150 sensor
* 
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ifndef UTIL_LINUX_CPUSET_H

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#define UTIL_LINUX_CPUSER_H

#include <sched.h>

/*
 * Fallback for old or obscure libcs without dynamically allocated cpusets
 * The following macros are based on code from glibc.
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1.971 util-linux-native 2.30 -r0

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Ty Coon, President of Vice

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consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
Hi, Hans. Nice to 'meet' you.

Yes, that's fine. Take what you need from my code and use it in your LGPL licensed library. I'm all in favor of removing v4l1 from the kernel.

Bill.

On 5/18/2010 12:40 AM, Hans de Goede wrote:
> Hi Bill,
> 
> AFAIK you've been out of the v4l loop, so I assume you
> don't know me, this let me start with a shot self introduction:
> 
> I'm a Linux enthusiast / developer. Amongst other things I've
> ported over many webcam drivers from v4l1 to v4l2 and I'm the
> author and maintainer of libv4l.
> 
> Let me also quickly introduce libv4l about 3 years ago I had
> too much free time and was looking for a hobby project and I
> decided that improving webcam support under Linux would be
> a nice project. At that time there were many webcam driver but
> most of them were out of tree, including the gspca driver
which is a USB webcam driver framework supporting a lot
of different chipsets.

One problem with getting these merged is that a lot of webcam
chipsets produce proprietary (compressed) video formats, which
apps don't understand. The out of tree drivers all "fixed" this
by doing decompression and video format conversion inside the
kernel.

This was not acceptable thus it was time to write a library
to sit between v4l2 apps and devices which could do format
conversion if necessary. This resulted in libv4l2 and
libv4lconvert being written, with libv4l2 being the glue sitting
in between and libv4lconvert doing the actual conversion.

But this did not help v4l1 apps, so I also wrote libv4l1 for those.

Both libv4l1 and libv4l2 work by emulating the raw device API, all
one needs to do is write v4lx_open instead of plain open when opening
the device and them use v4lx_ioctl, etc. on the resulting fd instead
of their plain versions. This serves 2 purposes:
1) It makes porting of apps the the library trivial
2) It allows for an LD_PRELOAD shim (used for proprietary apps such
   as skype).

And now (finally) my question to you, lately we (the v4l devs) have
been working on removing the last bits of v4l1 from the kernel.
We would like to also remove the v4l1 ioctl compatibility (*), but
currently libv4l1 depends on the v4l1 ioctl compatibility for some
ioctls.

Fixing this comes down to looking at what the kernel compat code
does and then implementing that in libv4l1. This will likely involve
some direct copying and libv4l1 is licensed under the LGPL rather
then the GPL. Thus my question is would it be ok to use your v4l1 compat
code under the LGPL inside libv4l1 ?

Thanks & Regards,

Hans

(*) As in practice v4l1 apps need libv4l1 anyways both for format
conversion and because some v4l2 drivers don't implement VIDIOCGMBUF
including rather important ones like the UVC driver, thus we've
come to the conclusion that we might just as well drop the
compatibility from the kernel
Hi,

> My question to you is would it be ok to use your v4l1 compat contributions under the LGPL inside libv4l1?

Fine with me.

cheers,

Gerd
Re: Re-licensing v4l1-compat.c code which you wrote

From: "Hans Verkuil" <hverkuil@xs4all.nl>
To: "Hans de Goede" <hdegoede@redhat.com>
Cc: "Gerd Hoffmann" <kraxel@redhat.com>,
    "Mauro Carvalho Chehab" <mchehab@redhat.com>,
    "Trent Piepho" <xyzzy@speakeasy.org>,
    "Huzaifa Sidhpurwala" <huzaifas@redhat.com>
User-Agent: SquirrelMail/1.4.18
MIME-Version: 1.0
Content-Type: text/plain;charset=iso-8859-1
Content-Transfer-Encoding: 8bit
X-Virus-Scanned: by XS4ALL Virus Scanner
X-RedHat-Spam-Score: -0.02  (RCVD_IN_DNSWL_NONE,T_RP_MATCHES_RCVD)
X-Scanned-By: MIMEDefang 2.67 on 10.5.11.16
X-Scanned-By: MIMEDefang 2.67 on 10.5.110.14
Hi All,

I'm writing you all because you've contributed patches to the kernels v4l1 ioctl compat code living in v4l1-compat.c.

Most of you already know me, and know that I'm working on making libv4l1 become independent of the kernel v4l1 ioctl compat code, so that it can be removed from the kernel.

For those who don't know me or the v4l1 cleanup effort, read below for the long story.

Making libv4l1 independent of the v4l1-compat.c code in the kernel comes down to looking at what the kernel compat code does and then implementing that in libv4l1. This will likely involve some direct copying and libv4l1 is licensed under the LGPL rather than the GPL. I already have permission from Bill Dirks who wrote the initial v4l1-compat code to do this.

My question to you is would it be ok to use your v4l1 compat contributions under the LGPL inside libv4l1?

Permission granted.

Looking forward to seeing this in libv4l1 so we can kill this legacy code in the kernel.

Regards,

Hans Verkuil

Thanks & Regards,

Hans

The long story:

I'm a Linux enthusiast / developer. Amongst other things I've ported over many webcam drivers from v4l1 to v4l2 and I'm the author and maintainer of libv4l.

Let me also quickly introduce libv4l about 3 years ago I had too much free time and was looking for a hobby project and I decided that improving webcam support under Linux would be a nice project. At that time there were many webcam driver but
Most of them were out of tree, including the gspca driver, which is a USB webcam driver framework supporting a lot of different chipsets.

One problem with getting these merged is that a lot of webcam chipsets produce proprietary (compressed) video formats, which apps don’t understand. The out of tree drivers all “fixed” this by doing decompression and video format conversion inside the kernel.

This was not acceptable thus it was time to write a library to sit between v4l2 apps and devices which could do format conversion if necessary. This resulted in libv4l2 and libv4lconvert being written, with libv4l2 being the glue sitting in between and libv4lconvert doing the actual conversion.

But this did not help v4l1 apps, so I also wrote libv4l1 for those.

Both libv4l1 and libv4l2 work by emulating the raw device API, all one needs to do is write v4lx_open instead of plain open when opening the device and then use v4lx_ioctl, etc. on the resulting fd instead of their plain versions. This serves 2 purposes:

1) It makes porting of apps to the library trivial
2) It allows for an LD_PRELOAD shim (used for proprietary apps such as skype).

Lately we (the v4l devs) have been working on removing the last bits of v4l1 from the kernel. We would like to also remove the v4l1 ioctl compatibility (*), but currently libv4l1 depends on the v4l1 ioctl compatibility for some ioctls, we are working on fixing this which involves re-using code from v4l1-compat.c, hence the re-licensing permission question.

(*) As in practice v4l1 apps need libv4l1 anyways both for format conversion and because some v4l2 drivers don’t implement VIDIOCGBUF including rather important ones like the UVC driver, thus we’ve come to the conclusion that we might just as well drop the compatibility from the kernel.

--

Hans Verkuil - video4linux developer - sponsored by TANDBERG, part of Cisco

Return-Path: mchehab@redhat.com
Hans de Goede wrote:
> Hi All,
> 
> I'm writing you all because you've contributed patches
> to the kernels v4l1 ioctl compat code living in v4l1-compat.c
> 
> Most of you already know me, and know that I'm working on
> making libv4l1 become independent of the kernel v4l1 ioctl
> compat code, so that it can be removed from the kernel.
> 
> For those who don't know me or the v4l1 cleanup effort,
> read below for the long story.
> 
> Making libv4l1 independent of the v4l1-compat.c code in the
> kernel comes down to looking at what the kernel compat code
> does and then implementing that in libv4l1. This will likely involve
> some direct copying and libv4l1 is licensed under the LGPL rather
> then the GPL. I already have permission from Bill Dirks who wrote
> the initial v4l1-compat code to do this.
>
> > My question to you is would it be ok to use your v4l1 compat
> > contributions under the LGPL inside libv4l1 ?

LGPL for v4l1-compat code is fine for me.

Cheers,

Mauro

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Version 2.1, February 1999

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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 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.

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
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*uganda.txt*  For Vim version 8.0.  Last change: 2013 Jul 06

VIM REFERENCE MANUAL  by Bram Moolenaar

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SUMMARY

*iccf* *ICCF*

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below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

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=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

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- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==============================================================================
Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem). *donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water
and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used. Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt. For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:
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1.979 vte 0.48.3 -r0

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1.980 watchdog 5.15-r0

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1.981 watchdog-config 1.0-r0

1.982 webkitgtk 2.16.6-r0

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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.)

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.

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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.

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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 source code 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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Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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@@ -516,7 +516,7 @@
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import optparse
import os.path
import subprocess
import sys

def PrintUsage():
    print("""Usage: python checklicenses.py [--root <root>] [tocheck]"
       "--root Specified the repository root. This defaults to "." relative
       "to the script file. This will be correct given the normal location
       "of the script in "<root>/tools".

       "--ignore-suppressions Ignores path-specific license whitelist. Useful when
       "trying to remove a suppression/whitelist entry.

       "tocheck Specified the directory, relative to root, to check. This defaults
       "to "." so it checks everything.

Examples:
python checklicenses.py
python checklicenses.py --root ~/chromium/src third_party"""

WHITELISTED/LICENSES = [
    'BSD',
    'BSD (2 clause)',
    'BSD (2 clause) GPL (v2 or later)',
    'BSD (3 clause)',
    'GPL (v2 or later)',
    'GPL (v3 or later) (with Bison parser exception)',
    'ISC',
    'ISC GPL (v2 or later)',
    'LGPL (v2 or later)',
    'LGPL (v2.1 or later)',
    'MIT/X11 (BSD like)',
    'Public domain',
    'Public domain GPL (v2 or later)',
    'Public domain MIT/X11 (BSD like)',
    'zlib/libpng',
    'Public domain LGPL (v2 or later)',
]
'zlib/libpng GPL (v2 or later),
]

PATH_SPECIFIC_WHITELISTED_LICENSES = {
    'dtds': [
        'UNKNOWN',
    ],
    'diameter/dictionary.dtd': [
        'UNKNOWN',
    ],
    'wimaxasncp/dictionary.dtd': [
        'UNKNOWN',
    ],
    'doc/': [
        'UNKNOWN',
    ],
    'docbook/custom_layer_pdf.xsl': [
        'UNKNOWN',
    ],
    'docbook/custom_layer_chm.xsl': [
        'UNKNOWN',
    ],
    'docbook/ws.css': [
        'UNKNOWN'
    ],
    'fix': [
        'UNKNOWN',
    ],
    'wsutil/g711.c': [
        'UNKNOWN',
    ],
    'packaging/macosx': [
        'UNKNOWN',
    ],
    'epan/except.c': [
        'UNKNOWN',
    ],
    'epan/except.h': [
        'UNKNOWN',
    ],
    'cmake/TestFileOffsetBits.c': [
        'UNKNOWN',
    ],
    'cmake/TestWindowsFSeek.c': [
        'UNKNOWN',
    ],
    # Generated header files by lex/yacc/whatever
'epan/dtd_grammar.h': [ 'UNKNOWN', ],
'epan/dfilter/grammar.h': [ 'UNKNOWN', ],
'epan/dfilter/grammar.c': [ 'UNKNOWN', ],
'epan/dissectors/packet-dtn.c': [ 'GPL (v2 or later) GPL (v2 or later)' # TODO: make licensecheck handle this better ],
'epan/dissectors/packet-ieee80211-radiotap-iter.': [ # Using ISC license only
   'ISC GPL (v2)' ],
'epan/dissectors/packet-ppi.c': [ # Using BSD (3 clause) license
   'BSD (3 clause) GPL (v2)' ],
'plugins/mate/mate_grammar.h': [ 'UNKNOWN', ],
'version.h': [ 'UNKNOWN', ],
# Special IDL license that appears to be compatible as far as I (not a # lawyer) can tell. See # https://www.wireshark.org/lists/wireshark-dev/201310/msg00234.html
'epan/dissectors/pidl/idl_types.h': [ 'UNKNOWN', ],
# Written by Ronnie Sahlberg and correctly licensed, but cannot include # a license header despite the file extension as they need to be # parsed by the pidl tool
'epan/dissectors/pidl/mapi/request.cnf.c': [ 'UNKNOWN', ],
'epan/dissectors/pidl/mapi/response.cnf.c': [ 'UNKNOWN', ],
# The following tools are under incompatible licenses (mostly GPLv3 or # GPLv3+), but this is OK since they are not actually linked into Wireshark 'tools/pidl': [ 'UNKNOWN', ],
'tools/lemon': [ 'UNKNOWN', ],
'tools/licensecheck.pl': [ ]
'GPL (v2)'
],
# Generated files for GTK pixbuf binary bundling
'ui/gtk/wireshark-gresources.h': ['UNKNOWN',
'UNKNOWN',
'UNKNOWN',
],
'ui/gtk/wireshark-gresources.c': ['UNKNOWN',
],
# The airpcap code is using BSD (3 clause)
'epan/crypt/airpcap_interop.h': ['BSD (3 clause) GPL (v2)'],
'epan/crypt/airpcap_tkip.c': ['BSD (3 clause) GPL (v2)'],
'epan/crypt/airpcap_ws.h': ['BSD (3 clause) GPL (v2)'],
'epan/crypt/wep-wpadefs.h': ['BSD (3 clause) GPL (v2)'],
'epan/crypt/airpcap_system.h': ['BSD (3 clause) GPL (v2)'],
'epan/crypt/airpcap_user.h': ['BSD (3 clause) GPL (v2)'],
'epan/crypt/airpcap_ccmp.c': ['BSD (3 clause) GPL (v2)'],
'epan/crypt/airpcap_int.h': ['BSD (3 clause) GPL (v2)'],
'epan/crypt/airpcap.c': ['BSD (3 clause) GPL (v2)'],
'epan/crypt/airpcap_debug.h': ['BSD (3 clause) GPL (v2)'],
'wsutil/airpcap_wep.c': ['BSD (3 clause) GPL (v2)'],
]

def check_licenses(options, args):
    # Figure out which directory we have to check.
    if len(args) == 0:
# No directory to check specified, use the repository root.
start_dir = options.base_directory

elif len(args) == 1:
    # Directory specified. Start here. It's supposed to be relative to the
    # base directory.
    start_dir = os.path.abspath(os.path.join(options.base_directory, args[0]))
else:
    # More than one argument, we don't handle this.
    printUsage()
    return 1

print("Using base directory: %s" % options.base_directory)
print("Checking: %s" % start_dir)
print(""

licensecheck_path = os.path.abspath(os.path.join(options.base_directory,
     'tools',
     'licensecheck.pl'))

licensecheck = subprocess.Popen([licensecheck_path,
     '-I', '150',
     '-r', start_dir],
     stdout=subprocess.PIPE,
     stderr=subprocess.PIPE)
stdout, stderr = licensecheck.communicate()
if sys.version_info[0] >= 3:
    stdout = stdout.decode('utf-8')
    stderr = stderr.decode('utf-8')
if options.verbose:
    print('----------- licensecheck stdout -----------')
    print(stdout)
    print('--------- end licensecheck stdout ---------')
if licensecheck.returncode != 0 or stderr:
    print('----------- licensecheck stderr -----------')
    print(stderr)
    print('--------- end licensecheck stderr ---------')
    print("\nFAILED\n")
    return 1

success = True
exit_status = 0
for line in stdout.splitlines():
    filename, license = line.split(':', 1)
    filename = os.path.relpath(filename.strip(), options.base_directory)
    # All files in the build output directory are generated one way or another.
    # There's no need to check them.
    if filename.startswith('out/') or filename.startswith('sconsbuild/'):
# For now we're just interested in the license.
license = license.replace("*No copyright*", ").strip()

# Skip generated files.
if 'GENERATED FILE' in license:
    continue

if license in WHITELISTED_LICENSES:
    continue

if not options.ignore_suppressions:
    found_path_specific = False
    for prefix in PATH_SPECIFIC_WHITELISTED_LICENSES:
        if (filename.startswith(prefix) and
            license in PATH_SPECIFIC_WHITELISTED_LICENSES[prefix]):
            found_path_specific = True
            break
    if found_path_specific:
        continue

reason = "'{}' has non-whitelisted license '{}'".format(filename, license)
success = False
print(reason)
exit_status = 1

if success:
    print("\nSUCCESS\n")
    return 0
else:
    print("\nFAILED\n")
    return exit_status

def main():
def main():
def main():
    default_root = os.path.abspath(
        os.path.join(os.path.dirname(__file__), '..'))
    option_parser = optparse.OptionParser()
    option_parser.add_option('--root', default=default_root, 
        dest='base_directory', 
        help='Specifies the repository root. This defaults to "../.." relative to the script file, which will normally be the repository root.')
    option_parser.add_option('--verbose', action='store_true', 
        default=False, help='Print debug logging')
    option_parser.add_option('--ignore-suppressions', 
        action='store_true',
        default=False, help='Print debug logging')
    option_parser.add_option('--ignore-suppressions', 
        action='store_true',
        default=False, help='Print debug logging')
Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD

1. Extra packages required

Wireshark requires a number of additional programs to function. Install the latest versions of the following programs before compiling:

The easiest way to install these is by using your operating system's ports or packages system. If you prefer to build from source, the programs can be found at the following sites:

**glib 2.16 or later:**
- ftp.gnome.org:/pub/gnome/sources/glib/

**pkgconfig:**
- http://pkgconfig.freedesktop.org/releases/

**python 2.5 or later:**
- https://www.python.org/downloads/source/

If you want to use the Wireshark GUI, install one or both of these toolkits:

**gtk+ 2.12 or later:**
- ftp.gnome.org:/pub/gnome/sources/gtk+/

**Qt 4.7 or later:**
- http://download.qt-project.org/official_releases/qt/

(These programs may require additional dependencies)
Additional programs can be used to enhance Wireshark's functionality. These can be found by typing ./configure --help or looking at the output at the end of running the configure script.

2. Compiling Wireshark
-----------------------
To compile Wireshark with the default options, run configure, make and make install (you may have to run "autogen.sh" first):

    ./configure
    make
    make install

The configure and make steps can be run as a non-root user and you can run Wireshark from the compilation directory itself. You must run make install as root in order to copy the program to the proper directories.

3. Berkeley Packet Filter (BPF) requirement
--------------------------------------------
In order to capture packets (with Wireshark/TShark, tcpdump, or any other packet capture program) on a BSD system, your kernel must have the Berkeley Packet Filter mechanism enabled. The default kernel configurations in recent versions of BSD systems have this enabled already. To verify the bpf device is present, look in the /dev directory:

    ls -l /dev/bpf*

You should see one or more bpf devices listed similar to this:

    crw------- 1 root wheel 0, 90 Aug 10 21:05 /dev/bpf0
    crw------- 1 root wheel 0, 91 Aug 10 21:05 /dev/bpf1

Packet-capturing programs will pick the first bpf device that's not in use. Recent versions of most BSDs will create bpf devices as needed, so you don't have to configure the number of devices that will be available.

4. Running wireshark as a non-root user
-----------------------------------------
Since the bpf devices are read-only by the owner (root), you normally have to run packet capturing programs such as Wireshark as root. It is safer to run programs as a non-root user if possible. To run Wireshark as a non-root user, you must change the permissions on the bpf device(s). If you are the only user that needs to use Wireshark, the easiest way is to change the owner of each bpf device to your username. You can also
add the read/write ability to the group (typically wheel) and add users
that need to use Wireshark to the wheel group. Check your operating
system’s documentation on how to make permanent these changes as they
are often reset upon reboot; if /dev is implemented with devfs, it might
be possible to configure devfs to create all bpf devices owned by a
particular user and/or group and with particular permissions. In
FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules
file with content such as

[localrules=10]
add path "bpf*" {mode and permissions}

where "mode and permissions" can include clauses such as

mode {octal permissions}

to set the permissions on the device (e.g., "mode 0660" to set the
permissions to rw-rw-r--),

user {user}

to set the user who owns the device, or

group {group}

to set the group that owns the device and adding a line such as

devfs_system_ruleset=localrules
to /etc/rc.conf. For example, an /etc/devfs.rules file with

[localrules=10]
add path "bpf*" mode 0660 group wheel

will grant read and write permissions on all BPF devices to all users in
the "wheel" group.

1.988 wpa_supplicant 2.6 -r0
1.988.1 Available under license :
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--------------------------

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