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  Version 2.1, February 1999

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1.7 alsa-utils 1.1.4-r0

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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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1.9 apr-util 1.6.0-r1

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1.10 arm-trusted-firmware 1.4

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1.16 attr 2.4.47-r0

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```
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```

### 1.20 automake-native 1.15

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Version 3, 29 June 2007

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1.25 bash 4.4-r0

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1.28 bigreqsproto 1.1.2-r0

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1.29 binutils 2.29-r0
1.29.1 Available under license :

BEGIN[FS="\n";  
  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\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")\n", $NF;
END
}
}
//[^]*15\. Disclaimer of Warranty[^]/
print ";"
print "";
print "static void"
print "show_warranty_command (char *ignore, int from_tty)"
print ";",
print "}/
END OF TERMS AND CONDITIONS[^]/
if (! ($0 ~ /^[^]*END OF TERMS AND CONDITIONS[^]/))
{
  printf " printf_filtered (";
  for (i = 1; i < NF; i++)
  printf "%s\n", $i;
  printf "%s\\n\n\n", $NF;
}

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

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.

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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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#
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# so that they have the form:
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# 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 + '
')
        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',
'ltsgar.m4',
'ltversion.m4',
'lt~obsolete.m4',
'missing',
'mkdep',
'mktstaldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appenid_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(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]{1,9}[-0-9,.\s][0-9]{1,9}*

        # 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('(^|[^\s])

        # 1: 'Copyright (C)', etc.
        '([Cc]opyright' 
        '([Cc]opyright\s+\{[Cc]\})' 
        '([Cc]opyright\s+%s' 
        '([Cc]opyright\s+©' 
        '([Cc]opyright\s+\@copyright\{\})' 
        '@set\s+copyright\{[w-]+\}')

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

        # 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('(^|[^\s])copyright[^=]*[0-9][0-9]', 
          re.IGNORECASE)

        self.comment_re = re.compile('#[\s\]*|[*\s\]*|;[\s\]*|\#[\s\]*|\%[\s\]*|//[\s\]*|\@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
        else:
            raise self.BadYear (string)
    else:
        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:

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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()
sself.copyright = copyright (self.errors)
sself.dirs = []
sself.default_dirs = []
sself.chosen_dirs = []
sself.option_handlers = dict()
sself.option_help = []

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

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

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

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

' % sys.argv[0])
sformat = '%-15s %s
'
sfor (what, help) in self.option_help:
s  sys.stdout.write (format % (what, help))
s
sys.stdout.write ('
Directories:
')
sformat = '%-25s'
si = 0
sfor (dir, filter) in self.dirs:
s  i += 1
s  if i % 3 == 0 or i == len (self.dirs):
s    sys.stdout.write (dir + '\n')
selse:
s    sys.stdout.write (format % dir)
s
sys.exit (0)

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

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

def main (self):
sfor arg in sys.argv[1:]:
s  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.

----------------------------------------------------------------------------------------------
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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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 "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.

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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
identifiable sections of that work are not derived from the Library,
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themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
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on the Library, the distribution of the whole must be on the terms of
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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
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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
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#!/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.

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)
                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.

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

```python
# 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]
```

```python
# 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
```

```python
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/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/armcopro.c", "sim/arm/armemu.c",
"sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
"sim/arm/armopt.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/armsupp.c", "sim/arm/armrdi.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_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/decode.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_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/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/psim_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/mem.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.h", "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/lfe.c", "sim/ppc/lfe.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/id-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-table.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/itable.c",
"sim/ppc/events.c", "sim/ppc/gen-itable.c", "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
@f gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
@f 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
@c end ignore
@c node Copying
@c man begin DESCRIPTION
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@end enumerate

@end enumerate

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@example
@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 example

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:

@small exemple
@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 small example

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".

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@c man end

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1.30 binutils-cross-aarch64 2.29r0

1.30.1 Available under license:

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

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#
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```
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.

```python
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
```

```python
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:
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", "alocal.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/gdhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.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/gdhost.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/PPC_RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
)
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.  <= */n"
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 ~ /\*[ ]*15\. Disclaimer of Warranty\[ ]*$/{
   printf "  printf_filtered ("\n\"");
} else if ($0 !~ /^\*[ ]*15\. Disclaimer of Warranty\[ ]*$/{
   printf "  printf_filtered (""
   for (i = 1; i < NF; i++)
      printf "%s\",
   printf "%s\n\"", $NF;
   printf "\n", $NF;
} else if ($0 !~ /^\*[ ]*END OF TERMS AND CONDITIONS\[ ]*$/{
   printf "\n", $NF;
} 
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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the documentation, and info on specific files will go into an AUTHORS
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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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# 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 + '
')

        self.num_errors += 1

    def ok (self):
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',
            'COPYING3.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',
            '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 (
    # Skip files produced by autogen
    '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+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]opyright\s+\{[Cc]\})'  
            '([^Cc]opyright\s+\%s'  
            '([^Cc]opyright\s+&copy)'  
            '([^Cc]opyright\s+@copyright\{\})'  
            '@set\s+copyright[\w-]+')

    # 2: the years. Include the whitespace in the year, so that
    # we can remove any excess.
    '\s*\(\?\.| ' + ranges + '\.\)'
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):
    """String containing a year, including any leading leading'
    'spaces or surrounding quotes.  A year may be missing'
    'altogether or given as 'onwards.' '
    ":"""
    year = self.year
    if not year:
        year = BadYear()
    return year
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
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.strip() + ' ' + 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)
        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 = '%-15s %s
'
        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:
            sys.stdout.write (format % dir)

    def o_this_year (self, option = None):
        for dir, filter in self.dirs:
            if filter.skip_dir (dir):
                for filename in filter.filenames:
                    sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)
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 LdFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (l
            # 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):
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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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 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.]

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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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
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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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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, you must alter all the notices that refer to this License, so
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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.

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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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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:

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!

1.31 bison 2.29-r0
1.31.1 Available under license:

```
BEGIN{
    FS="\n";
    print "/* => Do not modify this file!! */
    "/* buffer-read-only: t -v 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\"\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;
}

/^[ ]*15[ ]\.
Disclaimer of Warranty\.[ ]*$/
    print "}"
    print ""
    print "static void";
    print "show_warranty_command (char *ignore, int from_tty);"
    print "}"
}

/^[ ]*15[ ]\.
\.
END OF TERMS AND CONDITIONS[ ]*$/
if (! ($0 ~ /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/))
{
    printf " printf_filtered ("\n"
    for (i = 1; i < NF; i++)
```

printf "%s\n", $i;
    printf "%s\n\n", $NF;
}
}
END{
    print "\n";
    print "\n";
    print "void"
    print "\n";
    print "void"
    print "\n";
    print "\n";
    print "\n";
    print "\n";
    printf "%s\n\n\n", $i;
    printf "%s\n\n\n", $NF;
}
}
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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL.  It also counts
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Preamble

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freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
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can use it too, but we suggest you first think carefully about whether
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strategy to use in any particular case, based on the explanations below.

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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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straightforwardly into another language. (Hereinafter, translation is
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writing it). Whether that is true depends on what the Library does
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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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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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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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Ty Coon, President of Vice

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

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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
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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
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When a "work that uses the Library" uses material from a header file
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Whether this is true is especially significant if the work can be
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Otherwise, if the work is a derivative of the Library, you may
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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.
#
# 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 + '
')
        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',
            'decomp',
            'install-sh',
            'libtool.m4',
        ''])
ltmain.sh',
'ltoptions.m4',
ltsugar.m4',
lversion.m4',
l~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 ('	')
    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\-\n'

        # 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]\)pyright' # (C)opyright
    '\([Cc]\)pyright+t\([Cc]\)' # (C)opyright+
    '([Cc]\)pyright+t+%s' # (C)opyright+
    '\([Cc]\)pyright+t+&copy,' # (C)opyright+
    '([Cc]\)pyright+t+@copyright{]' # (C)opyright+
    '@set\s+@copyright\[w-\]t)' # (C)opyright+

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

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

    # 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 + ')*)?') # (. + 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)

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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)
        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 = '%-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 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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```
#!/usr/bin/env python

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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.

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

    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 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
    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('n'):
        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/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.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/id-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
)
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
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1.36 bmap-tools-native 3.4-r0
1.36.1 Available under license:

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

The initial package was put together by Ed Bartosh <eduard.bartosh@intel.com> on Sun Oct 27 22:32:19 EEST 2012.

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<signature of Ty Coon>, 1 April 1989
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1.37 boost 1.64.0-r0
1.37.1 Available under license :

    [article Invalid copyright years
    [quickbook 1.5]
    [copyright 2010-2001 Timequake man]
    ]
    /*
    *
    * Copyright (c) 2003 Dr John Maddock
    * Use, modification and distribution is subject to the
    * Boost Software License, Version 1.0. (See accompanying file
    * LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
    *
    */

    #include "licence_info.hpp"
    #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>
"</head>
"<body>
"<H1>Boost Licence Dependency Information</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 << " </\">
    ++i;
  }

os << " <a href="#files">Files with no recognised license</a>
 "<a href="#authors">Files with no recognised copyright holder</a>
if(!m_bsl_summary_mode)
  {
    os << "Moving to the Boost Software License...
    " <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
    " <a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
    " <a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>
    " <a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
    " <a href="#copyright">Copyright Holder Information</a>
  }
  os << 
  "<a href="#depend">File Dependency Information</a>
"</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\[[[:blank:]]+[[:blank:]][[:digit:]]+\d+\])");
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 % 100 << "." << 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>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#" >> make_link_target(licenses.first[i->first].license_name) >> "">(see details)</a>";
os << "</P></BLOCKQUOTE>";
++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>
while(i != j)
{
  // title:
os <<
"<H3><A name="" >> make_link_target(licenses.first[i->first].license_name) << "">" << 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>This license is used by the following " << i->second.authors.size() << " copyright holders:</P>
 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;
}

  os << "</P></BLOCKQUOTE>";
}
  // 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><n>";
}
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:</P><BLOCKQUOTE><P>
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">n;  
++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>n";
"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:</P><n><BLOCKQUOTE><P>
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br">
++i2;
}
os << "</p></BLOCKQUOTE>";
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.

Files that can be automatically converted to the Boost Software License:

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:

```cpp
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>

<tt>File: <tt>split_path(m_boost_path, i->first)

<i>Table:

<table>
<thead>
<tr>
<th>PRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRE</td>
</tr>
</tbody>
</table>

++i;
        ++file_num;
    }
}
```

// Output list of files that could be moved over to the Boost Software License

```
Files that could be converted to the Boost Software License:

The following "m_can_migrate_to_bsl.size()" files could be manually converted to the Boost Software License, but have not yet been:

```cpp
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"
        ++i2;
    }
```

// Output list of files that can not be moved over to the Boost Software License

```
Files that can NOT be converted to the Boost Software License:

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:

```cpp
i2 = m_cannot_migrate_to_bsl.begin();
    j2 = m_cannot_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "\n"
    }
```
++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>
<BLOCKQUOTE><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;
}
os << "</table>";
}

// 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 = dep->second.begin();
efi = dep->second.end();
while(fi != efi)
{
os << split_path(m_boost_path, *fi) << " ";
    ++fi;
}
os << "</pre>";
bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
badc_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
badc_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
badc_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();
for (os << "\n"; 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;
    if (dep != last_dep)
        while(true)
        {
            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;
}
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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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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 (agc@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 <int i>
struct t { ;

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>; 
using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;

int main() { }

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#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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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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<!- Additional javascript for drawing charts. -->
<script type="text/javascript" src="highcharts.js"></script>
<script type="text/javascript" src="highcharts-data.js"></script>
<script type="text/javascript" src="highcharts-exporting.js"></script>
<script type="text/javascript" src="chart.js"></script>
<script type="text/javascript" src="hana.js"></script>
</head>
<body>
<div id="top"><!-- do not remove this div, it is closed by doxygen! -->
<div id="titlearea">
<table cellspacing="0" cellpadding="0">
<tbody>
<tr style="height: 56px;">
<td id="projectlogo"><img alt="Logo" src="Boost.png"></td>
<td style="padding-left: 0.5em;">
<div id="projectname">Boost.Hana</div>
<span id="projectnumber">1.1.0</span>
</td>
<td>        <div id="MSearchBox" class="MSearchBoxInactive">
<span class="left">
<img id="MSearchSelect" src="search/mag_sel.png"
    onmouseover="return searchBox.OnSearchSelectShow()"
    onmouseout="return searchBox.OnSearchSelectHide()"
    alt=""/>
<input type="text" id="MSearchField" value="Search" accesskey="S"
    onfocus="searchBox.OnSearchFieldFocus(true)"
    onblur="searchBox.OnSearchFieldFocus(false)"
    onkeyup="searchBox.OnSearchFieldChange(event)"/>
</span><span class="right">
<a id="MSearchClose" href="javascript:searchBox.CloseResultsWindow()"><img id="MSearchCloseImg" border="0" src="search/close.png" alt=""></a>
</span>
</div>
</td>
</tr>
</tbody>
</table>
</div>

<!- Generated by Doxygen 1.8.11 -->
<script type="text/javascript">
var searchBox = new SearchBox("searchBox", "search",false,'Search');
</script>
</div><!-- top -->
<div id="side-nav" class="ui-resizable side-nav-resizable">
<div id="nav-tree">
</div>
</div>
</body>
Boost.MPL adapters

Adapters for Boost.MPL containers.

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

- **boost::mpl::list< T >**
  - [Details](#list-t)
Adapter for Boost.MPL lists. (See the Boost.MPL documentation for more information.)

```python
def authors(filename):
    log = run(['git', 'log', '--follow',
               '--date=short','-format=%aN%at', 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')
```

---

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---

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---

 Adriano Montenegro - 2019-2020
```python
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 (?P<name>.+?) (?P<year>\d{4})(\(c\))?', 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)

boost.Geometry (aka GGL, Generic Geometry Library)

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<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--
<ulink url="../../../index.htm">
<imagedata align="left" format="GIF" fileref="../../../boost.png" alt="C++ Boost"/>
</ulink>-->  
<!--hr -->

<para>
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</para>
</hr />
</ulink>
Jeff Garland</ulink>
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</section>

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[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements
for an [@../../../../libs/mpl/doc/refmanual/integral-constant.html 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.
MPL Interoperability

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.
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;
};

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

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

typedef true_ true_type;
typedef false_ 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); }

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

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

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

#endif  //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

#elif BOOST_HAS_PRAGMA_ONCE
#pragma once
#endif

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

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef 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 <cstddef>

#endif //ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif

#ifndef BOOST_HAS_PRAGMA_ONCE
# pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>
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::add_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::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
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::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;            \
    };                                                             \
//

#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(...);                                       

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```cpp
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));
  };
  \
  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;\n    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);
};

#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) 

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

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-->
<!-- boost-no-inspect -->
<!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/xhtml;charset=UTF-8"/>
<meta http-equiv="X-UA-Compatible" content="IE=9"/>
<meta name="generator" content="Doxygen 1.8.11"/>
<title>Boost.Hana: Boost.MPL adapters</title>
<link href="tabs.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="jquery.js"></script>
<script type="text/javascript" src="dynsections.js"></script>
<link href="navtree.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="resize.js"></script>
<script type="text/javascript" src="navtreedata.js"></script>
<script type="text/javascript" src="navtree.js"></script>
<script type="text/javascript">
$(document).ready(initResizable);
$(window).load(resizeHeight);
</script>
<link href="search/search.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="search/searchdata.js"></script>
<script type="text/javascript" src="search/search.js"></script>
<script type="text/javascript">
$(document).ready(function() { init_search(); });
</script>
<script type="text/x-mathjax-config">
MathJax.Hub.Config({
  extensions: ['[tex2jax.js]',
    jax: ['input/TeX','output/HTML-CSS'],
  ]});
</script>
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bzip2/libbzip2 version 1.0.4 of 20 December 2006

1.42 bzip2-native 1.0.6-r0
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1.43 cairo-native 1.14.10-r0

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<tbody>
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<thead>
<tr>
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<tbody>
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.44 calibrateproto 0.0.24-r0

1.45 canutils 4.0.6-r0
1.45.1 Available under license :

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### 1.46 ccache 3.3.4-r0

#### 1.46.1 Available under license:

```html
<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">
/* Default font. */
body {
  font-family: Georgia,serif;
}

/* Title font. */
h1, h2, h3, h4, h5, h6, div.title, caption.title, thead, p.table.header, #toctitle, #author, #revnumber, #revdate, #revremark, #footer {
  font-family: Arial,Helvetica,sans-serif;
}
```

body {
  margin: 1em 5% 1em 5%;
}

a {
  color: blue;
  text-decoration: underline;
}
a:visited {
  color: fuchsia;
}

em {
  font-style: italic;
  color: navy;
}

strong {
  font-weight: bold;
  color: #083194;
}

h1, h2, h3, h4, h5, h6 {
  color: #527bbd;
  margin-top: 1.2em;
  margin-bottom: 0.5em;
  line-height: 1.3;
}

h1, h2, h3 {
  border-bottom: 2px solid silver;
}

h2 {
  padding-top: 0.5em;
}

h3 {
  float: left;
}

h3 + * {
  clear: left;
}

h5 {
  font-size: 1.0em;
}

div.sectionbody {
  margin-left: 0;
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;
}

div.admonitionblock .icon {
    vertical-align: top;
    font-size: 1.1em;
    font-weight: bold;
    text-decoration: underline;
    color: #527bbd;
    padding-right: 0.5em;
}
div.admonitionblock td.content {
  padding-left: 0.5em;
  border-left: 3px solid #dddddd;
}

div.exampleblock > div.content {
  border-left: 3px solid #dddddd;
  padding-left: 0.5em;
}

div.imageblock div.content { padding-left: 0; }
span.image img { border-style: none; vertical-align: text-bottom; }
a.image:visited { color: white; }

dl {
  margin-top: 0.8em;
  margin-bottom: 0.8em;
}
dt {
  margin-top: 0.5em;
  margin-bottom: 0;
  font-style: normal;
  color: navy;
}
dd > *:first-child {
  margin-top: 0.1em;
}

ul, ol {
  list-style-position: outside;
}
ol.arabic {
  list-style-type: decimal;
}
ol.loweralpha {
  list-style-type: lower-alpha;
}
ol.upperalpha {
  list-style-type: upper-alpha;
}
ol.lowerroman {
  list-style-type: lower-roman;
}
ol.upperroman {
  list-style-type: upper-roman;
}

div.compact ul, div.compact ol,
vertical-align: top;
}
th.tableblock.valign-middle, td.tableblock.valign-middle {
    vertical-align: middle;
}
th.tableblock.valign-bottom, td.tableblock.valign-bottom {
    vertical-align: bottom;
}

/*
* 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
/////////////////////////////////////////////////////////////////////

/* 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. */

// 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(i);
                }
            }
        }
        iterate(el);
        return result;
    }
}
var toc = document.getElementById("toc");
if (!toc) {
    return;
}

// Delete existing TOC entries in case we're reloading the TOC.
var tocEntriesToRemove = [];
var i;
for (i = 0; i < toc.childNodes.length; i++) {
    var entry = toc.childNodes[i];
    if (entry.nodeName.toLowerCase() == 'div' && entry.getAttribute("class") && entry.getAttribute("class").match(/^toclevel/))
        tocEntriesToRemove.push(entry);
}
for (i = 0; i < tocEntriesToRemove.length; i++) {
    toc.removeChild(tocEntriesToRemove[i]);
}

// Rebuild TOC entries.
var entries = tocEntries(document.getElementById("content"), toclevels);
for (var i = 0; i < entries.length; ++i) {
    var entry = entries[i];
    if (entry.element.id == "")
        entry.element.id = "_toc_" + i;
    var a = document.createElement("a");
a.href = "#" + entry.element.id;
a.appendChild(document.createTextNode(entry.text));
    var div = document.createElement("div");
    div.appendChild(a);
    div.className = "toclevel" + entry.toclevel;
    toc.appendChild(div);
}
if (entries.length == 0)
    toc.parentNode.removeChild(toc);

/////////////////////////////////////////////////////////////////////
// Footnotes generator
/////////////////////////////////////////////////////////////////////
/* Based on footnote generation code from:
* http://www.brandspankingnew.net/archive/2005/07/format_footnote.html
*/

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*\[(\s\S*)\]\s*/)[1];
            spans[i].innerHTML = 
                "[<a id='_footnoteref_" + n + "]" + n + + "</a>];";
            spans[i].setAttribute("data-note", note);
        }
        noteholder.innerHTML +=
            "<div class='footnote' id='_footnote_" + n + "]"> + n + + 
"tit%' + + "</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">
<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>
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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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-------------------------------------------------------------------------------

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

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m4/feature_macros.m4
~~~~~~~~~~~~~~~~~~~~

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

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

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snprintf.c and m4/snprintf.m4
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

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

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

hello world
merhaba dnya
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Perch (Fish) Elevator !
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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

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

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

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
>
> 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=
> change until it was mentioned in the latest notes.

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

---

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
>
> the original license (before moving to sourceforge -- aka, 2.7) was not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> 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.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > 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.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....

My apologies for not chiming in in anything resembling a reasonable

timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > > 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.
> > >
> > > I am sympathetic. Guys, what do you reckon?
> > >
> > > What I am hearing so far is that LGPL makes sense, since it can be
> > > linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable
> > timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> > the change now?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

-------------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
-------------

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.
This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

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 12:29:03 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
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 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 ESMTP id l91Gxtpr020623
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 ESMTP 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 esmtp (Exim 4.50)
id l1cOcX-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>
<EC90713277D2BE41B7110CCCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
> 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

1.58 createrepo-c-native 0.10.0-r0

1.58.1 Available under license :

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1.59 cronie 1.5.1-r0
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One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

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## GnuTLS
(May be used for SSL/TLS support) Uses the LGPL license. If this is a problem for you, consider using another TLS library. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

## WolfSSL

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## libressl

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.
## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

## MIT Kerberos

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## Heimdal

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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It is an original Debian package. Programs in it were maintained by
Guy Maor <maor@debian.org>, and are now maintained by Clint Adams
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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/

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```xml
<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.
```

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1.78 docbook-xml-dtd4-native 4.5-r0

1.79 docbook-xsl-stylesheets-native 1.79.1-r0

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See doc/content/index.html.
<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="generate.legalnotice.link">
    <refmeta>
     <refentrytitle>generate.legalnotice.link</refentrytitle>
     <refmiscinfo class="other" otherclass="datatype">boolean</refmiscinfo>
    </refmeta>
    <refnamediv>
     <refname>generate.legalnotice.link</refname>
     <refpurpose>Write legalnotice to separate chunk and generate link?</refpurpose>
    </refnamediv>
    <refsynopsisdiv>
     <src:fragment xml:id="generate.legalnotice.link.frag"><xsl:param name="generate.legalnotice.link" select="0"/></src:fragment>
    </refsynopsisdiv>
    <refsection><info><title>Description</title></info>
    <para>If the value of <parameter>generate.legalnotice.link</parameter> is non-zero, the stylesheet:
     <itemizedlist>
      <listitem>
       <para>writes the contents of <tag>legalnotice</tag> to a separate
<para>HTML file</para>
</listitem>
</listitem>
<para>inserts a hyperlink to the <tag>legalnotice</tag> file</para>
</listitem>
</listitem>
<para>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</para>
</listitem>
</listitem>
</itemizedlist>

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

<para>The name of the separate HTML file is computed as follows:

<orderedlist>
<liitem>
<para>If a filename is given by the <tag class="xmlpi">dbhtml filename</tag>
processing instruction, that filename is used.</para>
</liitem>
<liitem>
<para>If the legalnotice has an <tag class="attribute">id</tag>/<tag class="attribute">xml: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.</para>
</liitem>
<liitem>
<para>If the legalnotice does not have an <tag class="attribute">id</tag>/<tag class="attribute">xml: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.</para>
</liitem>
</orderedlist>

</para>
</refsection>
</refentry>
<refentry xmlns="http://nwalsh.com/xmlns/litprog/fragment"
          xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
          version="5.0" xml:id="generate.copyright">
  <refmeta>
    <refentrytitle>generate.copyright</refentrytitle>
    <refmiscinfo class="other" otherclass="datatype">boolean</refmiscinfo>
  </refmeta>
  <refnamediv>
    <refname>generate.copyright</refname>
    <refpurpose>Specifies whether copyright is generated</refpurpose>
  </refnamediv>
  <refsynopsisdiv>
    <src:fragment xml:id="generate.copyright.frag">
      <xsl:param name="generate.copyright">1</xsl:param>
    </src:fragment>
  </refsynopsisdiv>

  <refsection><info><title>Description</title></info>
    <para>This parameter specifies whether the copyright info is generated in the footer area.</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="html.head.legalnotice.link.types">
  <refmeta>
    <refentrytitle>html.head.legalnotice.link.types</refentrytitle>
    <refmiscinfo class="other" otherclass="datatype">string</refmiscinfo>
  </refmeta>
  <refnamediv>
    <refname>html.head.legalnotice.link.types</refname>
    <refpurpose>Specifies link types for legalnotice link in html head</refpurpose>
  </refnamediv>
  <refsynopsisdiv>
    <src:fragment xml:id="html.head.legalnotice.link.types.frag">
      <xsl:param name="html.head.legalnotice.link.types">copyright</xsl:param>
    </src:fragment>
  </refsynopsisdiv>

  <refsection><info><title>Description</title></info>
  </refsection>
</refentry>
The value of \texttt{html.head.legalnotice.link.types} is a space-separated list of link types, as described in \texttt{xlink:href="http://www.w3.org/TR/html401/types.html#type-links"} Section 6.12 of the HTML 4.01 specification. If the value of the \texttt{generate.legalnotice.link} parameter is non-zero, then the stylesheet generates (in the \texttt{head} section of the HTML source) either a single HTML \texttt{link} element or, if the value of the \texttt{html.head.legalnotice.link.multiple} parameter is non-zero, one \texttt{link} element for each link type specified. Each \texttt{link} element has the following attributes:

\begin{itemizedlist}
\item <tag class="attribute">rel</tag> attribute whose value is derived from the value of \texttt{html.head.legalnotice.link.types}.
\item <tag class="attribute">href</tag> attribute whose value is set to the URL of the file containing the \tag{legalnotice}.
\item <tag class="attribute">title</tag> attribute whose value is set to the title of the corresponding \tag{legalnotice} (or a title programatically determined by the stylesheet).
\end{itemizedlist}

For example:

\begin{screen}
  <link rel="license" href="ln-id2524073.html" title="Legal Notice"/>
\end{screen}

In an ideal world, the default value of \texttt{html.head.legalnotice.link.types} would probably be \texttt{license}, since the content of the DocBook \tag{legalnotice} is typically license information, not copyright information. However, the default value is \texttt{copyright} for pragmatic reasons: because thats among the set of recognized link types listed in \texttt{xlink:href="http://www.w3.org/TR/html401/types.html#type-links"} Section 6.12 of the HTML 4.01 specification, and because certain
browsers and browser extensions are preconfigured to recognize that value.</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="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>

Otherwise, the stylesheet generates generates a single <literal>link</literal> instance; for example:

<screen>  <link rel="copyright license" href="ln-id2524073.html" title="Legal Notice"></screen>
</screen>

</para>

</refsection>
<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 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 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">
<refentrytitle>man.copyright.section.enabled</refentrytitle><refmiscinfo class="other" otherclass="datatype">boolean</refmiscinfo>
<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>...
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<refsynopsisdiv>
<src:fragment xml:id="html.head.legalnotice.link.types.frag">
<xsl:param name="html.head.legalnotice.link.types">copyright</xsl:param>
</src:fragment>
</refsynopsisdiv>

<refsection><info><title>Description</title></info>

<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>
<li><para>a <tag class="attribute">rel</tag> attribute whose value is derived from the value of <parameter>html.head.legalnotice.link.types</parameter></para></li>
<li><para>an <tag class="attribute">href</tag> attribute whose value is set to the URL of the file containing the <tag>legalnotice</tag></para></li>
<li><para>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)</para></li>
</itemizedlist>

For example:

<screen> <link rel="license" href="Ln-id2524073.html" title="Legal Notice"></screen>
</para>

<refsection><info><title>About the default value</title></info>
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>
</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>:
Otherwise, the stylesheet generates a single \texttt{link} instance; for example:

\begin{verbatim}
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The specification of DOM Level 1’s various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:
http://www.w3.org/TR/SVG11/java.html
xml-commons/java/external/LICENSE.dom-software.txt $Id: LICENSE.dom-software.txt 734314 2009-01-14 03:33:27Z mrglavas $

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* *
* curve25519-donna: Curve25519 elliptic curve, public key function *
* *
* http://code.google.com/p/curve25519-donna/ *
* *
* Adam Langley <agl@imperialviolet.org> *
* *
* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to> *
* *
* 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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* from the sample implementation.
 */

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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
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<signature of Ty Coon>, 1 April 1989
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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): $(BSDLIB_IMAGE).so.$(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) \n  `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) \n $(DESTDIR)$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 @@ 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
+ Copyright (C) Andrew Tridgell              1999-2005
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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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1.89 e2fsprogs-native 1.43.5-r0

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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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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.  
#  
# BSDLIBVERSION = 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): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(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 @@ 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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+ Copyright (C) Andrew Tridgell 1999-2005
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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:

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>.

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This package was originally maintained by
Martin Mitchell <martin@debian.org>, who added the various debian/* files.

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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.

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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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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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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.

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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,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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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# 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_interface.c`
- `vf_kerndeint.c`
- `vf_mcdeint.c`
- `vf_mpdecimate.c`
- `vf_owdenoise.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_super2xsai.c`
- `vf_tinterlace.c`
- `vf_uspp.c`
- `vsrc_mptestsrc.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 LGPL, but we require `--enable-nonfree` even with LGPL configurations in case it is not.

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Version 2.1, February 1999

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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.

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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.

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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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   (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.

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
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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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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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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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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
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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.

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

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

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1.109 fontconfig 2.12.4-r0

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1.111 freettype 2.8-r0

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src/base/md5.c
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src/bdf/bdf.h
src/bdf/bdfdrivr.c
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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. \page ListIntroduction
List Implementation \ingroup FreeRTOSIntro /

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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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:
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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
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FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/include/stream_buffer.h

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FILES:
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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
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FILES:
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http://aws.amazon.com/freertos

Scheduler includes.

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/GCC/MicroBlazeV9/port_exceptions.c

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The 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:
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FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/MemMang/heap_3.c
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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:
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embeddedsw/XilinxProcessorIPLib/drivers/axipcie/src/xaxipcie_sinit.c
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embeddedsw/XilinxProcessorIPLib/drivers/axis_switch/data/axis_switch.tcl
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embeddedsw/XilinxProcessorIPLib/drivers/uartps/src/xuartps_g.c
embeddedsw/XilinxProcessorIPLib/drivers/uartps/src/xuartps_hw.c
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FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/alloc.h

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FILES:
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FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/cache.h

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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 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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Generic libmetal shared memory handling. /

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embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/generic/shmem.c
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primitives for libmetal. /

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for libmetal. /

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routines for libmetal. /

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version information for libmetal. /

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specific primitives for libmetal. /

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ADvised OF THE POSSIBILITY OF SUCH DAMAGE. / @file cpu.h @brief CPU specific 
primatives on microblaze platform. /

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FreeRTOS libmetal memory allocation definitions. /

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ADvised OF THE POSSIBILITY OF SUCH DAMAGE. / @file generic/condition.c @brief
Generic libmetal condition variable handling. /

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Generic condition variable primitives for libmetal. /

FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/freertos/condition.h
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FreeRTOS device operations. /

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@file freertos/init.c
@brief FreeRTOS libmetal initialization.

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OF SUCH DAMAGE. / @file freertos/irq.c @brief FreeRTOS libmetal irq definitions.
/

FILES:
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FreeRTOS libmetal irq definitions. /

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freertos libmetal time handling. /

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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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@file freertos/zynqmp_r5/sys.h
@brief freertos zynqmp_r5 system primitives for libmetal.

FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/freertos/zynqmp_r5/sys.h

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generic libmetal memory allocation definitions. /

FILES:
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ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / @file generic/cache.c @brief
generic libmetal cache handling. /

FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/generic/cache.c

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// @file generic/device.c
// @brief Generic libmetal device operations.

FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/generic/device.c

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/ @file generic/irq.c @brief Generic libmetal irq definitions. /

FILES:
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Generic mutex primitives for libmetal. /

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embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/generic/mutex.h
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Generic libmetal sleep handling. /

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embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/generic/io.c

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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.

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. /

FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/generic/microblaze_generic/sys.c

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generic/microblaze_generic/sys.h @brief generic microblaze system primitives for libmetal. /

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OF SUCH DAMAGE. / @file zephyr/alloc.h @brief zephyr libmetal memory allocation
definitions. /

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variable handling. /

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OF SUCH DAMAGE. / @file zephyr/qemu_cortex_m3/sys.c @brief machine specific
system primitives implementation. /

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OF SUCH DAMAGE. / @file zephyr/qemu_cortex_m3/sys.h @brief Zephyr QEMU Cortex M3
system primitives for libmetal. /

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stack. Author: Adam Dunkels <adam@sics.se> /

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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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- 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:
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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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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
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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
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@file Implementation of raw protocol PCBs for low-level handling of different
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FILES:
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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:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/tcp_in.c
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/tcp_in.c

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embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/udp.c
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- First, call autoip_init(). - call autoip_tmr() all AUTOIP_TMR_INTERVAL msecs, 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. /

FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/ipv4/autoip.c

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----------------------------------------------------------------------------/
Includes
----------------------------------------------------------------------------/
FILES:
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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv4/ip4.c

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eMBEDDED SW/THIRD PARTY/SW SERVICES/LWIP202/SRC/LWIP-2.0.2/SRC/IPv4/IP4_ADDR.C 

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<jani@iv.ro> Simon Goldschmidt original reassembly code by Adam Dunkels 
<adam@sics.se> /
FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/ipv4/ip_frag.c
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv4/ip4_frag.c

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<adam@sics.se> /

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embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/ipv6/ip6_addr.c
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/include/ipv4/lwip/icmp.h
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/include/ipv4/lwip/inet.h
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/include/ipv4/lwip/inet_chksum.h
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/include/ipv6/lwip/icmp.h
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/include/ipv6/lwip/inet.h
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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/lwip141/src/lwip-1.4.1/src/include/netif/slipif.h

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Address Resolution Protocol module for IP over Ethernet Functionally, ARP is divided into two parts. The first maps an IP address to a physical address when sending a packet, and the second part answers requests from other machines for our physical address. This implementation complies with RFC 826 (Ethernet ARP). It supports Gratuitous ARP from RFC3220 (IP Mobility Support for IPv4) section 4.6 if an interface calls etharp_gratuitous(our_netif) upon address change. / Copyright (c) 2001-2003 Swedish Institute of Computer Science. Copyright (c) 2003-2004 Leon Woestenberg <leon.woestenberg@axon.tv> Copyright (c) 2003-2004 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. This file is part of the lwIP TCP/IP stack. /

FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/netif/etharp.c
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv4/etharp.c

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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,
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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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/ 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.
Buffers must not be shared across multiple threads, all functions except netbuf_new() and netbuf_delete() are not
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@file API functions for name resolving @defgroup netdbapi NETDB API @ingroup
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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/api/netbuf.c

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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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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, to be called from non-TCPIP threads only. Can be activated by defining @ref LWIP_SOCKET to 1. Header is in posix/sys/socket.h / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved.
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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/api/sockets.c
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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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'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 bandwidth 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
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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 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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stack Author: Erik Andersson <erian747@gmail.com> @todo: - Handle large outgoing
payloads for PUBLISH messages - Fix restriction of a single topic in each
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for legacy MQTT protocol version Please coordinate changes and requests with
Erik Andersson <erian747@gmail.com> /

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@file NetBIOS name service responder / @defgroup netbiosns NETBIOS responder
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Simons <christiaan.simons@axon.tv> Martin Hentschel <info@cl-soft.de> @defgroup
snmp SNMPv2c agent @ingroup apps SNMPv2c compatible agent There is also a MIB
compiler and a MIB viewer in lwIP contrib repository (lwip-
contrib/apps/LwipMibCompiler). 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 Features:
- SNMPv2c support. - Low RAM usage - no memory pools, stack only. - MIB2
implementation is separated from SNMP stack. - Support for multiple MIBs
(snp_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
x.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. 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_systest() - snmp_mib2_set_systest() - 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_sysdesc() - 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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@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 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
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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 Copyright (c) 2002-2003, Adam Dunkels. 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. / 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 / @todo: one-shot mDNS: dual-stack fallback to another IP version / Includes
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file Incluse 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:
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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 /
@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/mem.c
---------------------------------------------------------------

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@file lwIP network interface abstraction @defgroup netif Network interface (NETIF) @ingroup callbackstyle_api @defgroup netif_ip4 IPv4 address handling
@defgroup netif_ip6 IPv6 address handling @defgroup netif
cd Client data handling Store data (void) on a netif for
application usage. @see @ref LWIP_NUM_NETIF_CLIENT_DATA @defgroup netif /
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<adam@sics.se> /

FILES:
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: 

```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_pbuf = (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
```

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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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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/raw.c
-------------------------------------------------------------------

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of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se> / @defgroup
sys_layer Porting (system abstraction layer) @ingroup lwip @verbatim
"sys_arch.txt" @defgroup sys_os OS abstraction layer @ingroup 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 /

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.\nCopyright (c) 2001-2004 Swedish Institute of
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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\n The code for the User Datagram Protocol
UDP & UDPLite (RFC 3828).\n See also @ref udp_raw @defgroup udp_raw UDP @ingroup
callbackstyle_api User Datagram Protocol module\n @see @ref raw_api and @ref netconn / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All
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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`! /
@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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  - Configure your DHCP Client. @see netifapi_autoip
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Dynamic Host Configuration Protocol client

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:

- DHCP_COARSE_TIMER_SECS (recommended 60 which is a minute)
- 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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-----------------------------------------------------------------------------------------------------------------------------------
Includes
-----------------------------------------------------------------------------------------------------------------------------------
FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv4/igmp.c
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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv6/ethip6.c
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/include/lwip/ethip6.h
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6LowPAN netif @ingroup addons 6LowPAN netif implementation /

FILES:
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This file is built upon the file: src/arch/rtxc/netif/sioslip.c Author: Magnus Ivarsson <magnus.ivarsson(at)volvo.com> Simon Goldschmidt / @defgroup slipif SLIP netif @ingroup addons This is an arch independent SLIP netif. The specific serial hooks must be provided by another file. They are sio_open, sio_read/sio_tryread and sio_send Usage: This netif can be used in three ways:
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_received_byte[]() 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
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Extracted from avos.

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extra skb padding on transmit, not receive. 06/18/04 - Matt Domsch
<Matt_Domsch@dell.com>, Oleg Makarenko <mole@quadra.ru> Use Linux kernel 2.6
arc4 and sha1 routines rather than providing our own. 2/15/04 - TS: added
include <version.h> and testing for Kernel version before using
MOD_DEC_USAGE_COUNT/MOD_INC_USAGE_COUNT which are deprecated in 2.6 /

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Van Jacobson (van@helios.ee.lbl.gov), Dec 31, 1989: Initial distribution.
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eMBEDDED/sw/ThirdParty/sw_services/openamp/src/open-amp/lib/common/sh_mem.c

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COMPONENT OpenAMP stack. DESCRIPTION This file provides definitions for remoteproc loader /

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ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / FILE NAME zynqmp_remoteproc_r5.c
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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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. /

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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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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 remote_device.c COMPONENT 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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driver is communicating irrespective of the fact whether it is RPMSG Remote or Master.

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FILE NAME rpmsg_core.c COMPONENT OpenAMP DESCRIPTION This file provides the core functionality of RPMSG messaging part like message parsing, Rx/Tx callbacks handling, channel creation/deletion and address management.

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embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/hdcp_key_utility/bigdigits.c
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--------------------------------------------------------------------------------
This file contains the USB Chapter 9 related functions.

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.

FILES:
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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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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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ALL TIMES. @file xusb_keyboard.h This file contains the constants, type
definitions, variables and function prototypes used in the USB keyboard example.

Open Source Used In NCS1004 7.0.0

2132
MODIFICATION HISTORY:

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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the mouse movement of the USB mouse. The push buttons used on ML507 board are SW10, SW11, SW12, SW13 and SW14. The cursor on the host PC moves as and when any of the SW3 or SW4 or SW5 and SW7 push button is pressed. The SW6 push button switch 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. End point 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). </pre> Include Files /

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THIS COPYRIGHT NOTICE AND DISCLAIMER MUST BE RETAINED AS PART OF THIS FILE AT ALL TIMES. @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> /

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embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_mouse.h --------------------------------------------------------------------------------
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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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FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_storage.h

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This file contains Mass storage device application related functions implemented in polled mode. @note The example is tested on MicroBlaze, with caches included in the H/W design. This example works for USB high speed interface only. <pre> MODIFICATION HISTORY: Ver Who Date Changes ----- ---- 4.00a hvm 05/24/11 Created based on the xusb_storage.c example. 4.01a bss 11/01/11 Modified UsbIfIntrHandler function to unconditionally reset when USB reset is asserted (CR 627574). 4.02a bss 04/05/12 Modified the sequence of Cache Flush and Invalidation. The cache flush happens just before the driver API EPDataSend is called. Similarly the cache invalidation is done after the call to EPDataReceive and after the dma transfer is over. </pre> / Include Files /

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_storage_polled_mode.c

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This file contains the constants, type definitions, variables as used in the USB chapter 9 and mass storage demo application. 

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FILES: embeddedsw/XilinxProcessorILib/drivers/usb/src/xusb.c

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Communication

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.

Interrupts

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.

Virtual Memory

This driver supports Virtual Memory. The RTOS is responsible for calculating the correct device base address in Virtual Memory space.

Threads

This driver is not thread safe. Any needs for threads or thread mutual exclusion must be satisfied by the layer above this driver.

Asserts

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.

Building the driver

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.

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. </pre> /

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/src/xusb.h

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THIS COPYRIGHT NOTICE AND DISCLAIMER MUST BE RETAINED AS PART OF THIS FILE AT 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:
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FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/src/xusb_g.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 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 /

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ALL TIMES. @file xusb_sinit.c @addtogroup usb_v5_2 @{ This file contains the
implementation of the XUsb driver's static initialization functionality. @note
None. <pre> MODIFICATION HISTORY: Ver Who Date Changes ----- ----- -------- 1.00a
hvm 12/28/06 First release </pre> Include Files /
FILES:
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embeddedsw/XilinxProcessorILib/drivers/i2stx/data/i2stx.tcl
embeddedsw/XilinxProcessorILib/drivers/sdiaud/data/sdiaud.tcl
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FILES:
embeddedsw/XilinxProcessorILib/drivers/v_hdmirxss/examples/hdcp_key_utility/aes256.c
embeddedsw/XilinxProcessorILib/drivers/v_hdmitxss/examples/hdcp_key_utility/aes256.c
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FILES:
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
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/examples/hdcp_key_utility/aes256.h
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/examples/xhdmi_example/aes256.c
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/examples/xhdmi_example/aes256.h

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/xhdmi_example/sha256.c
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/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:
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmie_example/sha256.h
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/examples/xhdmie_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:
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmie_example/idt_8t49n24x.c
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/examples/xhdmie_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

Open Source Used In NCS1004 7.0.0 2151
18/02/08 Converted math.h functions (e.g. ceil) to standard functions

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmi_example/idt_8t49n24x.h
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/examples/xhdmi_example/idt_8t49n24x.h

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xvidec_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> /

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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<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<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, 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.

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.

FILES:

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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:

FILES:
embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/freertos/zynqmp_r5/zynqmp_amp_demo/ipi_shmem_de
mod.c
embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/generic/zynqmp_r5/zynqmp_amp_demo/ipi_shmem_de
mod.c

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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. / shmem_latency_demod.c This is the
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.
2. Get TTC timer device libmetal I/O region.
3. Get IPI device libmetal I/O region and the IPI interrupt vector.
4. Register IPI interrupt handler.
5. 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.
6. 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.
7. Cleanup resource: disable IPI interrupt and deregister the IPI interrupt handler. Here is the shared memory structure of this demo:
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:
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FILES:
embeddedsw/lib/sw_apps/zynqmp_dram_test/src/ddrc.h
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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
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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
embeddedsw/lib/sw_apps/openamp_echo_test/src/machine/zynqmp_r5/rsc_table.h
embeddedsw/lib/sw_apps/openamp_matrix_multiply/src/machine/zynq7/rsc_table.c
embeddedsw/lib/sw_apps/openamp_matrix_multiply/src/machine/zynq7/rsc_table.h
embeddedsw/lib/sw_apps/openamp_matrix_multiply/src/machine/zynqmp_r5/rsc_table.c
embeddedsw/lib/sw_apps/openamp_matrix_multiply/src/machine/zynqmp_r5/rsc_table.h
embeddedsw/lib/sw_apps/openamp_rpc_demo/src/machine/zynq7/rsc_table.c
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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 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:
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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 RPM channel is established at this point. All RPM 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 (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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This application is meant to run on the remote CPU running bare-metal 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 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.

FILES:
embeddedsw/lib/sw_apps/openamp_matrix_multiply/src/system/generic/matrix_multiply.c
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embeddedsw/lib/sw_apps/zynqmp_pmufw/misc/xfpga_config.h
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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_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. Apr 01,'08 R0.06 Added fputc(),
fgets(), 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
fconf.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 .fname 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 cfg 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_lseek() 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_disk(). 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) Addd 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
---------------------------------------------------------------------------/

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---------------------------------------------------------------------------/ Low
level disk interface modlue include file (C)ChaN, 2014 /
---------------------------------------------------------------------------/

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------------------------------------------/
FILES:
embeddedsw/lib/sw_services/xilffs/src/include/ff.h

------------------------------------------/

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FatFs - FAT file system module configuration file R0.10b (C)ChaN, 2014
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FILES:
embeddedsw/lib/sw_services/xilmfs/src/utils/flash.tcl

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FILES:
embeddedsw/mcap/linux/Makefile

1.113 fstests 0.1+gitAUTOINC+e5939ff608-r0

1.114 garcon 0.6.1-r0

1.114.1 Available under license :

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Developed by:

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University of Illinois at Urbana-Champaign

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<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
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.. _gnu_fdl:

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Version 1.3, 3 November 2008

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`/* Definitions for BSD assembler syntax for Intel 386
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    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 " 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)),			\nassemble_name ((FILE), (NAME)),		\nfprintf ((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
", (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
", (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)	\nif ((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)	\nsprintf ((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:
\"=======================================================================
.de Sp \" Vertical space (when we can't use .PP)
.if t.sp .5v
.if n .sp
.. \de Vb \" Begin verbatim text
.ft CW
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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 \l(\*W-
\ds C+ C\v'-1\v'\h'-1\p's-2+\h'-1\p'+\s0\v',1\v'\h'-1\p'
\ie n \{|  
  \ds -- \l(\*W-
  \ds PI pi
  \if (\n(.H=4u)&(1m=24u) \ds -- \l(\*W\h'-12u\l(\*W\h'-12u'\l(\*W\h' \diablo 10 pitch
  \if (\n(.H=4u)&(1m=20u) \ds -- \l(\*W\h'-12u\l(\*W\h' \diablo 12 pitch
  \ds L'' "
  \ds R'' "
  \ds C" "
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  \ds -- \l(\em\l|  
  \ds PI \l(\p  
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  \ds R" "
  \ds C"  
  \ds C"  
\}\br\}
```

Escape single quotes in literal strings from groff's Unicode transform.

```
\ie \n(.g .ds Aq \l(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
```

\if \n(.g .if rF .nr rF 0
\if \n\l(g .if rF .nr rF 1
\if (\n(rF:(\n(.g==0)) \

if !nF \{
  de IX
  tm Index:\%1\%n\n"\%2"
\}
if !nF==2 \{
  nr % 0
  nr F 2
  \}
\}
\.rr rF
\" Accents mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
\" Fear. Run. Save yourself. No user-serviceable parts.
\" fudge factors for nroff and troff
if n \{
  ds #H 0
  ds #V .8m
  ds #F .3m
  ds #[ \f1
  ds #] \fP
\}
if t \{
  ds #H ((1-u-\n\n(.fu%2u))*.13m)
  ds #V .6m
  ds #F 0
  ds #[ \&
  ds #] \&
\}
\" simple accents for nroff and troff
if n \{
  ds ' \&
  ds ` \&
  ds ^ \&
  ds , \&
  ds ~ ~
  ds /
\}
if t \{
  ds 'hk:h'-(\n\n.wu*8/10-*.(#H)\vlh\n.u"
  ds `hk:h'-(\n\n.wu*8/10-*.(#H)\vlh\n.u'
  ds ^hk:h'-(\n\n.wu*10/11-*.(#H)'^h'\n.u'
  ds ,hk:h'-(\n\n.wu*8/10),\nh\n.u'
  ds ~hk:h'-(\n\n.wu-.1m)*(#H-.1m)-lh\n.u'
  ds /hk:h'-(\n\n.wu*8/10-*.(#H)'z\l(h)\n.u'
\}
\" troff and (daisy-wheel) nroff accents
.ds :hk:h'-(\n\n.wu*8/10-*.(#H+.1m+*.(#F)\vlv*\vlh'2m+*\#F.h)\n.u')\n\"
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@example
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@end 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
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@end example

The hypothetical commands @samp{show w} and @samp{show c} should show
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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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#
# 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',
    'ltotptions.m4',
    'ltswag.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',
])}
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 ('\[(Cc)opyright'   # 1: 'Copyright (C)', etc.
                '((Cc)opyrights+\[(Cc)])'  # [Cc]opyrights+[Cc])
                '((Cc)opyright[+\%]+)'    # [Cc]opyright[+\%]
                '((Cc)opyrights+\@copyright\}),'  # [Cc]opyrights+[Cc]
                'copyright = u"'  # copyright = u"'
                '@set\s+copyright[\\w-]+')  # @set\s+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+)?'

        # 4: the copyright holder. Don't allow multiple consecutive
        # spaces, so that right-margin gloss doesn't get caught
        # (e.g. gnat_ugn.text).
        '\(' + 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)'
else:
    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)
mode = None
with open (pathname, 'r') as file:
    prev = None
    mode = os.fstat (file.fileno()).st_mode
    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)
        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',
            '.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

        # Similarly params/README.
        if filename == 'README' and os.path.basename(dir) == 'params':
            return True
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):
        super().__init__(errors)
        canon_fsf = 'Free Software Foundation, Inc.'
sel.f.add_package_author('Free Software Foundation', canon_fsf)
self.f.add_package_author('Free Software Foundation.', canon_fsf)
self.f.add_package_author('Free Software Foundation Inc.', canon_fsf)
self.f.add_package_author('Free Software Foundation, Inc', canon_fsf)
self.f.add_package_author('Free Software Foundation, Inc.', canon_fsf)
self.f.add_package_author('The Free Software Foundation', canon_fsf)
self.f.add_package_author('The Free Software Foundation, Inc', canon_fsf)
self.f.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
self.f.add_package_author('Software Foundation, Inc.', canon_fsf)

self.f.add_package_author('ARM')
self.f.add_package_author('AdaCore')
self.f.add_package_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.f.add_package_author('Cavium Networks.')
self.f.add_package_author('Faraday Technology Corp.')
self.f.add_package_author('Florida State University')
self.f.add_package_author('Greg Colvin and Beman Dawes.')
self.f.add_package_author('Hewlett-Packard Company')
self.f.add_package_author('Intel Corporation')
self.f.add_package_author('Information Technology Industry Council')
self.f.add_package_author('James Theiler, Brian Gough')
self.f.add_package_author('Makoto Matsumoto and Takuji Nishimura')
self.f.add_package_author('National Research Council of Canada')
self.f.add_package_author('NVIDIA Corporation')
self.f.add_package_author('Peter Dimov and Multi Media Ltd')
self.f.add_package_author('Peter Dimov')
self.f.add_package_author('Pipeline Associates, Inc')
self.f.add_package_author('Regents of the University of California')
self.f.add_package_author('Silicon Graphics Computer Systems, Inc')
self.f.add_package_author('Silicon Graphics')
self.f.add_package_author('Stephen L. Moshier')
self.f.add_package_author('Sun Microsystems, Inc. All rights reserved')
self.f.add_package_author('The Go Authors. All rights reserved')
self.f.add_package_author('The Go Authors')
self.f.add_package_author('The Regents of the University of California')
self.f.add_package_author('Unicode, Inc')
self.f.add_package_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')
        # libcilkts is imported from upstream.
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgmp', 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')
        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',
'libhaysail-rt',
'libiberty',
'libitm',
'libobjc',
'libssp',
'libstdc++-v3',
'libvtv',
'lt-o-plugin',
]

GCCCmdLine().main()

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!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=UTF-8" /><meta name="generator" content="DocBook XSL-NS Stylesheets V1.78.1" /><meta name="keywords" content="ISO C++, library" /><meta name="keywords" content="ISO C++, runtime, library" /><link rel="home" href="manual.html" title="The GNU C++ Library" /></head><body><div class="navheader"><table width="100%" summary="Navigation header"><tr><th colspan="3" align="center">License</th></tr><tr><td width="20%" align="left"><a accesskey="p" href="status.html">Prev</a></td><th width="60%" align="center">Chapter1.Status</th><td width="20%" align="right"><a accesskey="n" href="bugs.html">Next</a></td></tr></table><hr /></div><div class="section"><div class="titlepage"><div><div><h2 class="title" style="clear: both"><a id="manual.intro.status.license"></a>License</h2></div></div></div><p>There are two licenses affecting GNU libstdc++: one for the code, and one for the documentation.</p><div class="section"><div class="titlepage"><div><div><h3 class="title"><a id="manual.intro.status.license.gpl"></a>The Code: GPL</h3></div></div></div><p>The source code is distributed under the <a class="link" href="appendix_gpl.html" title="AppendixD. GNU General Public License version 3">GNU General Public License version 3</a>, with the addition under section 7 of an exception described in the FAQ regarding common questions. If you have more questions, ask the FSF or the gcc mailing list.</p><p>The source code is distributed under the <a class="link" href="appendix_gpl.html" title="AppendixD. GNU General Public License version 3">GNU General Public License version 3</a>, with the addition under section 7 of an exception described in the FAQ regarding common questions. If you have more questions, ask the FSF or the gcc mailing list.</p>

GCCRUNTIMELIBRARYEXCEPTION

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GCCCRUNTIMELIBRARYEXCEPTION

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Everyone is permitted to copy and distribute verbatim copies of this
licensedocument, but changing it is not allowed.

This GCC Runtime Library Exception ("Exception") is an additional
permission under section 7 of the GNU General Public License, version
3 ("GPLv3"). It applies to a given file (the "Runtime Library") that bears
a notice placed by the copyright holder of the file stating that the file
is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions
of certain GCC header files and runtime libraries with the compiled
program. The purpose of this Exception is to allow compilation of
non-GPL (including proprietary) programs to use, in this way, the
header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime
Library after a Compilation Process, or makes use of an
interface provided by the Runtime Library, but is not otherwise based
on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without
modifications, governed by version 3 (or as specified later version) of
the GNU General Public License (GPL) with the option of using any
subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation,
modification, and use would permit combination with GCC in accord with
the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual
processor architecture, in executable form or suitable for
input to assembler, loader, linker and/or execution.

phase. Notwithstanding that, Target Code does not include data
in any format that is used as a compiler intermediate representation,
or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in
non-intermediate languages designed for human-written code, and/or in
Java Virtual Machine bytecode, into Target Code. Thus, for example,
use of source code generators and preprocessors need not be considered
part of the Compilation Process, since the Compilation Process can be

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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.

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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").

"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.)

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 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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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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   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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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
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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(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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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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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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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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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
## Compiler switch to embed a runtime search path

LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name

LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options

LD_SOOPTIONS=-Wl,-Bsymbolic

## Shared object suffix

SO = so

## Non-shared intermediate object suffix

STATIC_O = ao

## Compilation rules

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

%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

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

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

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

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

## Versioned libraries rules

%.$SO.$(SO_TARGET_VERSION_MAJOR): %.SO.$(SO_TARGET_VERSIONМАJOR) $RM $@ && ln -s $< $@

%.$SO: %.SO.$(SO_TARGET_VERSION_MAJOR)
$RM $@ && ln -s $(SFO).$(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>
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<body BGCOLOR="#ffffff">
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</html>

1.134 inputproto 2.3.2-r0

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1.137 iperf3 3.2-r0

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* tcp_window_size.c
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* *-------------------------------------------------------------------
* set/getsockopt
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1.142 iw 4.9

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### 1.144 json-c 0.12.1

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1.145 json-glib 1.2.8
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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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1.158 libarchive 3.3.2-r0

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1.159 libassuan 2.4.3-r0

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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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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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(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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making modifications to it. For an executable work, complete source
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1.170 libdaemon 0.14-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.

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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 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
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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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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
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#
# Make the long-awaited conversion to MPL.

lgpl3_header = ""
// Eigen is free software; you can redistribute it and/or
// modify it under the terms of the GNU Lesser General Public
// License as published by the Free Software Foundation; either
// version 3 of the License, or (at your option) any later version.
//
// Alternatively, you can redistribute it and/or
// modify it under the terms of the GNU General Public License as
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:
            print '       ', filename
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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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(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
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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.
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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
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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.)

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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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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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) 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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1.189 libgudev 231-r0

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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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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 "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
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on the Library, the distribution of the whole must be on the terms of
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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
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In addition, mere aggregation of another work not based on the Library
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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 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.

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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.

It may happen that this requirement contradicts the license
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That's all there is to it!

1.203 libnfsidmap 0.25-r0

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Marius Aamodt Eriksen <marius@umich.edu>
J. Bruce Fields <bfields@umich.edu>

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Authors: J. Bruce Fields, Andy Adamson, Marius Eriksen

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1.204 libnl 3.2.29-r0

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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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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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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.

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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.

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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.

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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.

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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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1.205 libnotify 0.7.7-r0

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1.212 libpcap 1.8.1-r0

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1.213 libpciaccess 0.13.5-r0

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1.214 libpcre 8.41-r0

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THE BASIC LIBRARY FUNCTIONS

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Written by:       Philip Hazel
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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.

Written by Philip Hazel
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/* This module is a wrapper that provides a POSIX API to the underlying PCRE2 functions. */

#ifdef 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. */

#ifdef (_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). */

#ifdef(_MSC_VER) && (_MSC_VER < 1900)
define snprintf _snprintf
/* 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 */
};
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 */

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 ) */

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 */

REG_ESIZE, /* regular expression too large */
REG_ESPACE, /* failed to get memory */
REG_EPAREN, /* unmatched 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 */
};

/****************************
 * Translate error code to string *
 ****************************/

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;
}

/****************************
 * Free store held by a regex *
 ****************************/

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);
}
/*********************************************************************************
| *            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 COMPILE_ERROR_BASE, but check, just in case. */

      if (errorcode < COMPILE_ERROR_BASE) return REG_BADPAT;
      errorcode -= COMPILE_ERROR_BASE;
    }
if (errorcode < (int)(sizeof(eint1)/sizeof(const int)))
    return eint1[errorcode];
for (i = 0; i < sizeof(eint2)/(2*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 */
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;
case PCRE2_ERROR_NOMATCH: return REG_NOMATCH;
case PCRE2_ERROR_NOMEMORY: return REG_ESPACE;
case PCRE2_ERROR_NULL: return REG_INVARG;
}

/* End of pcre2posix.c */

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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.

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
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included without limitation in the term "modification".)

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making modifications to it. For a library, complete source code means
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interface definition files, plus the scripts used to control compilation
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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.

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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
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
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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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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
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
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Otherwise, if the work is a derivative of the Library, you may
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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
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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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October 28, 1997
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Sam Lantinga(slouken@libsdl.org)

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October 28, 1997
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Sam Lantinga (slouken@libsdl.org)

Simple DirectMedia Layer
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1.226 libsm 1.2.2-r0

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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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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
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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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1.231 libsoup-2.4 2.58.2-r0

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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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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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Mathieu Desnoyers
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I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

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1.239 liburi-perl-native 1.72-r0

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The End

1.240 libusb-compat 0.1.5-r0

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1.244 libvpx 1.6.1-r0

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1.257 libxfce4util 4.12.1-r0

1.257.1 Available under license:

<!-- ##### SECTION Title ##### -->
Software Licenses

<!-- ##### SECTION Short_Description ##### -->

<!-- ##### SECTION Long_Description ##### -->

<!-- ##### SECTION See_Also ##### -->

<!-- ##### SECTION Stability_Level ##### -->

<!-- ##### SECTION Image ##### -->

<!-- ##### MACRO XFCE_LICENSE_BSD ##### -->
Contains the text of the BSD license.

<!-- ##### MACRO XFCE_LICENSE_GPL ##### -->
Contains the text of the GNU General Public License.

<!-- ##### MACRO XFCE_LICENSE_LGPL ##### -->
Contains the text of the GNU Lesser General Public License.
<!-- ##### ENUM XfceLicenseTextType ##### -->
<para>
</para>

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@XFCE_LICENSE_TEXT_GPL:
@XFCE_LICENSE_TEXT_LGPL:

<!-- ##### FUNCTION xfce_get_license_text ##### -->
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Software Licenses

Functions

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<tr>
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```c
#include <libxfce4util/libxfce4util.h>
```

### Includes

- `<libxfce4util/libxfce4util.h>`

### Description

Contains the text of the BSD license.

### Functions

#### XFCE_LICENSE_BSD

```c
#define XFCE_LICENSE_BSD (xfce_get_license_text(XFCE_LICENSE_TEXT_BSD))
```

Contains the text of the BSD license.

#### XFCE_LICENSE_GPL

```c
#define XFCE_LICENSE_GPL (xfce_get_license_text(XFCE_LICENSE_TEXT_GPL))
```

Contains the text of the GNU General Public License.

#### XFCE_LICENSE_LGPL

```c
#define XFCE_LICENSE_LGPL (xfce_get_license_text(XFCE_LICENSE_TEXT_LGPL))
```

Contains the text of the GNU Library General Public License.
Contains the text of the GNU Lesser General Public License.

```c
const gchar* xfce_get_license_text (XfceLicenseTextType license_type);
```

Returns the text of the software license specified in the `license_type` translated to the current language. If no translation is available, the English license text will be returned.

### Parameters

- **license_type**: an `XfceLicenseTextType`.

### Returns

The license text for `license_type`.

### Types and Values

#### enum XfceLicenseTextType

The license text to return from `xfce_get_license_text()`.

#### Members

- enum XfceLicenseTextType

The license text to return from `xfce_get_license_text()`.

### Other Details

- Types
- Values
<table>
<thead>
<tr>
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<th>Description</th>
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<td>XFCE_LICENSE_TEXT_BSD</td>
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<td>XFCE_LICENSE_TEXT_GPL</td>
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</tr>
<tr>
<td>XFCE_LICENSE_TEXT_LGPL</td>
<td>the GNU Lesser General Public License.</td>
</tr>
</tbody>
</table>

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Version 2, June 1991

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#error "Only <libxfce4util/libxfce4util.h> can be included directly, this file may disappear or change contents"
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 *
 * 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))

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/* */
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#endif /* !__XFCE_LICENSE_H__ */

**1.258 libxfixes 5.0.3-r0**

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1.259 libxfont2 2.0.1-r0

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1.261 libxi 1.7.9-r0

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1.264 libxkbfile 1.0.9-r0

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1.265 libxklavier 5.4-r0

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1.267 libxml2-native 2.9.4-r0
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1.283 lighttpd 1.4.45-r0

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1.284 linpack 1.0-r0

1.285 linux-libc-headers 4.12-r0

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- for his AFC kernel thread

- Christoph Martin <martin@uni-mainz.de>

- for his LIRC infrared handler

- Andreas Oberritter <obi@linuxtux.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
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- 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,
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- Kenneth Aafly <ke-aa@frisurf.no>

- for adding support for Typhoon DVB-S budget card

- Ernst Peinlich <e.peinlich@inode.at>

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- 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.

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  line to the DVB mailing list)
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{
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            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
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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 &lt;small_buffer_data&gt; 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-&gt;destructor / skb-&gt;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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  * Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* M. Welsh, 6 July 1996
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============

.. note::

   This documentation is outdated. There are several other DVB contributors that aren't listed below.

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/* nicstar.c v0.22 Jawaid Bazyar (bazar@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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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
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=========================================================================
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 LMbench'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
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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
lmbench 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) lmbench 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.

1.288 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.

1.289 logrotate 3.12.3-r0
1.289.1 Available under license:

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1.302 makedepend-native 1.0.5-r0

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1.303 makedevs-native 1.0.1-r0

1.304 man-pages 4.11-r0

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1.306 matchbox-desktop 2.2-r0

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1.315 mesa 17.1.7-r0

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Mesa Component Licenses

<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>
</tbody>
</table>
Ext headers
   include/GL/glext.h  Khronos
   include/GL/glxext.h

GLX client code  src/glx/  SGI Free Software License B

C11 thread   include/c11/threads* .h  Boost (permissive)
   emulation
</pre>

<p>
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</p>

</div>
</body>
</html>
/* 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

abcd<ghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

0123456789
.
+
-
/
*
%
<
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1.319 mkfontscale-native 1.1.2-r0

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1.322 mobile-broadband-provider-info

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1.324 mozjs 17.0.0-r0

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1.329 mtdev 1.1.5-r0

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1.331 nasm-native 2.13.01-r0

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1.332 ncurses 6.0+20170715-r0

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-- vile: txtmode file-encoding=utf-8
Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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It is based somewhat on work done by Bruce Perens <Bruce@Pixar.com>,
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<mdorman@debian.org>, Richard Braakman <dark@xs4all.nl>, James Troup
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-- vile: txtmode file-encoding=utf-8

1.333 ncurses-native 6.0+20170715-r0

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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 <jjtroup@comp.brad.ac.uk>, J.H.M. Dassen (Ray) <jdassen@wi.LeidenUniv.nl>, and Galen Hazelwood <galenh@micron.net> over various years.

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Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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

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1.335 neon 0.30.2-r0

1.335.1 Available under license :

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Version 2, June 1991

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For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. 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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Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, 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 redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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Appendix: 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.

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<one line to give the program's name and a brief idea of what it does.>
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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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[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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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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   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.

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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
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the Library and of the other library facilities is otherwise
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      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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1.336 net-tools 1.60-20-r0

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1.339 nettle 3.3-r0

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    uv__io_t event_watcher;

#define UV_IO_PUBLIC_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
```
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(
  // 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-exceptions) and [spdx-exceptions](https://www.npmjs.com/package/spdx-license-ids) 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:

```
```
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.

```
```
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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation

=======================================================================

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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-opt;
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.
*/
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</li>
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1.348 ofono 1.20-r0

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRD NORM 0x0040
#define POLLNORM POLLRD NORM
#define POLLWRNORM POLLOUT
#define POLLRBAND 0x0080
#define POLLWRBAND 0x0100
#endif
#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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 */

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#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 WEXITSTATUS(w)((_W_INT(w)) >> 8) & 0377)
#define WTERMSIG(w)((_W_INT(w)) & 0177)
#define WCOREFLAG 0x80
#define WCOREDUMP(w)((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
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   - The make-ssh-known-hosts script is no longer included
   - TSS has been removed
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  *
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  *
  * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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1.356 p11-kit 0.22.1-r0

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1.357 pango 1.40.6-r0

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@c End:

1.359 patch 2.7.5-r0

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1.360 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

1.361 pciutils 3.5.5

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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) = $copyright_msg =~ /.*\b\d{4,}\b/; # This line may need adjusting
    or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}
sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b\d{4,}\b/i
  or die "Copyright statement not found in perl -v output '$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>.'
brun:
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

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1.369 pm-utils 1.4.1-r1

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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

FILES:
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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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embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Makefile_psu_cortexa53

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http://www.FreeRTOS.org http://aws.amazon.com/freertos 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. \page ListIntroduction List Implementation \ingroup FreeRTOSIntro /
FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/include/list.h
--------------------------------------------------------------------------------
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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 lightweight, 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 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_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.  
--------------------------------------------------------------------------------- / Scheduler includes.  
/ 

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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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 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
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FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/MemMang/heap_3.c

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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
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FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/MemMang/heap_4.c

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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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embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/alloc.h
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FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/compiler.h

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FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/cpu.h

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primitives for libmetal. /

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embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/processor/aarch64/cpu.h
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/processor/arm/cpu.h
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FreeRTOS libmetal memory allocation definitions. /

FILES:
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freertos libmetal cache handling. /

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Generic condition variable primitives for libmetal. /

FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/freertos/condition.h
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/generic/condition.h

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/
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FreeRTOS libmetal irq definitions.

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freertos libmetal sleep handling. /

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@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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@file freertos/zynqmp_a53/sys.h
@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. /

FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/freertos/zynqmp_r5/sys.h
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libmetal initialization. /

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Generic libmetal sleep handling. /

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embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/generic/sleep.c

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system primitives for libmetal. /

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generic zynq7 system primitives for libmetal. /

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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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generic/microblaze_generic/sys.h @brief generic microblaze system primitives for libmetal. /

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@file linux/mutex.h
@brief Linux mutex primitives for libmetal.

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libmetal shared memory handling. /

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libmetal sleep handling. /

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variable handling. /

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OF SUCH DAMAGE. / @file zephyr/irq.c @brief Zephyr libmetal irq definitions. /

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embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/zephyr/irq.h

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OF SUCH DAMAGE. / @file zephyr/mutex.h @brief Zephyr mutex primitives for
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FILEs:
@file zephyr/sys.h @brief Zephyr system primitives for libmetal.

FILEs:
@file zephyr/sleep.c @brief Zephyr libmetal sleep handling.
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embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/zephyr/cortexm/sys.c

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embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/zephyr/cortexm/sys.h
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/
@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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embeddedsw/ThirdParty/sw_services/lwip141/src/contrib/ports/xilinx/include/arch/perf.h
embeddedsw/ThirdParty/sw_services/lwip141/src/contrib/ports/xilinx/include/arch/sys_arch.h
embeddedsw/ThirdParty/sw_services/lwip202/src/contrib/ports/xilinx/include/arch/cc.h
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embeddedsw/ThirdParty/sw_services/lwip202/src/contrib/ports/xilinx/include/arch/perf.h
embeddedsw/ThirdParty/sw_services/lwip202/src/contrib/ports/xilinx/include/arch/sys_arch.h

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embeddedsw/ThirdParty/sw_services/lwip141/src/contrib/ports/xilinx/netif/xemacliteif.c
embeddedsw/ThirdParty/sw_services/lwip141/src/contrib/ports/xilinx/netif/xemacpsif.c
embeddedsw/ThirdParty/sw_services/lwip202/src/contrib/ports/xilinx/netif/xaxiemacif.c
embeddedsw/ThirdParty/sw_services/lwip202/src/contrib/ports/xilinx/netif/xemacliteif.c
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embeddedsw/ThirdParty/sw_services/lwip202/src/contrib/ports/xilinx/netif/xaxiemacif_physpeed.c

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embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/api/api_msg.c
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/api/api_msg.c
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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
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DNS_C The lwIP DNS resolver functions are used to lookup a host name and map it
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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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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)
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FILES:
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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.
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, 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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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/tcp_out.c

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FILES:
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The code for the User Datagram Protocol UDP & UDPLite (RFC 3828). / @todo Check the use of `(struct udp_pcb).chksum_len_rx`!

FILES:
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- First, call autoip_init().
- call autoip_tmr() all AUTOIP_TMR_INTERVAL msecs, 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, 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. /

FILES:
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. /

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Includes

FILES:
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embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/ipv4/ip.c
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv4/ip4.c
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embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/ipv4/ip_frag.c
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv4/ip4_frag.c

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embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/include/ipv4/lwip/icmp.h
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embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/include/lwip/sio.h
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embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/include/lwip/snmp_msg.h
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for our physical address. This implementation complies with RFC 826 (Ethernet
ARP). It supports Gratuitous ARP from RFC3220 (IP Mobility Support for IPv4)
section 4.6 if an interface calls etharp_gratuitous(our_netif) upon address
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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. /

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embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/netif/ethernetif.c
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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\b 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.
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stack. Author: Adam Dunkels <adam@sics.se> Improved by Marc Boucher
<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/api/sockets.c

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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/httpd/fsdata.h
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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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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
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<erik@kryo.se> /

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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/mqtt/mqtt.c

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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 duplicate names! / Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are
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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 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 (a4bd53c6a6f4) (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. 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 your 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_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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@file SNTP client module / Copyright (c) 2007-2009 Frdric Bernon, 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: Frdric Bernon, Simon Goldschmidt / @defgroup sntp SNTP @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)
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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: 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 (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: Simon Goldschmidt /

FILES:
eMBEDDINGSW/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 Copyright (c) 2002-2003, Adam Dunkels. 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. / 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 / @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
@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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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 ipv6 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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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ip.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 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
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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/mem.c

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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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@file 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 /
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FILES:
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_pbuf
(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_allocated_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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@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. @see @ref raw_api / 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 lwIP Operating System abstraction / 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> / @defgroup sys_layer Porting (system abstraction layer) @ingroup lwip @verbinclude "sys_arch.txt" @defgroup sys_os OS abstraction layer @ingroup 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 / 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
Open Source Used In NCS1004 7.0.0

@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:
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@file User Datagram Protocol module
The code for the User Datagram Protocol UDP & UDPLite (RFC 3828). See also @ref udpRaw @defgroup udpRaw UDP @ingroup callbackstyle_api User Datagram Protocol module
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FILES:
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 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, 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

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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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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
--------------------------------------------------------------------------/
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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv4/igmp.c

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@ingroup addons This is an arch independent SLIP netif. The specific serial hooks must be provided by another file. They are sio_open, sio_read/sio_tryread and sio_send Usage: This netif can be used in three ways:
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_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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97-11-05 Guy Lancaster <lancasterg@acm.org>, Global Election Systems Inc. Original.

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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/netif/ppp/polarssl/des.c

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standard was published by NIST in 1993.
http://www.itl.nist.gov/fipspubs/fip180-1.htm /

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Stack. DESCRIPTION This file is implementation of generic part of HIL. /

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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/remoteproc/remoteproc.c

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FILE NAME remoteproc_loader.h
COMPONENT OpenAMP stack. DESCRIPTION This file provides definitions for remoteproc loader /

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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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ADVAISED OF THE POSSIBILITY OF SUCH DAMAGE. / FILE NAME remote_device.c COMPONENT
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:
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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 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:
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/rpmsg/rpmsg.c

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part like message parsing, Rx/Tx callbacks handling, channel creation/deletion
and address management.

FILES:
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/rpmsg/rpmsg_core.c
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embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/virtio/virtqueue.c
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@file ti_lmk03318.c @addtogroup TI_LMK03318 @{ <pre>
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------ ------ X.XX XX YY/MM/DD 1.00 RHe 16/06/20 Initial release. </pre>
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/dprxss/examples/src/dats_dp14/ti_lmk03318.h
embeddedsw/XilinxProcessorIPLib/drivers/dptxss/examples/src/dats_dp14/ti_lmk03318.h
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FILES:
embeddedsw/XilinxProcessorIPLib/drivers/dprxss/examples/src/dats_dp14/videofmc_defs.h
embeddedsw/XilinxProcessorIPLib/drivers/dptxss/examples/src/dats_dp14/videofmc_defs.h
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embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/hdcp_key_utility/bigdigits.c
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/examples/hdcp_key_utility/bigdigits.c

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FILES:
embeddedsw/XilinxProcessorIPLib/drivers/hdcp22_common/src/bigdtypes.h
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/hdcp_key_utility/bigdtypes.h
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/examples/hdcp_key_utility/bigdtypes.h

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THIS COPYRIGHT NOTICE AND DISCLAIMER MUST BE RETAINED AS PART OF THIS FILE AT 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 /
FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_cp9.c

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__LITTLE_ENDIAN__ gets defined when compiled with ARM CodeSourcery toolchain.
&lt;/pre&gt; /

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_cp9.h
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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>

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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).

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ALL TIMES. @file xusb_keyboard.h This file contains the constants, type
definitions, variables and function prototypes used in the USB keyboard example.
@note None. <pre> MODIFICATION HISTORY: Ver Who Date Changes ----- ---- 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).
</pre> /

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_keyboard.h
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FILES:
 embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_mouse.c
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This file contains the constants, type definitions, variables and function prototypes used in the mouse application.

MODIFICATION HISTORY: Version Who Date Changes
1.00a hvm 3/30/07 First release
3.02a hvm 08/16/10 Updated with the little endian support changes.

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_mouse.h

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FILES:
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@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
</pre>
the compilation issue at the RamDisk variable declaration. CR625055. </pre> 

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_storage.h

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just before the driver API EPDataSend is called. Similarly the cache invalidation is done after the call to EPDataReceive and after the dma transfer is over. 

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_storage_polled_mode.c

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FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_types.h

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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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THIS COPYRIGHT NOTICE AND DISCLAIMER MUST BE RETAINED AS PART OF THIS FILE AT
ALL TIMES. @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. 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. 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. PHY Communication

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. Interrupts

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. Virtual Memory

This driver supports Virtual Memory. The RTOS is responsible for calculating the correct device base address in Virtual Memory space. Threads

This driver is not thread safe. Any needs for threads or thread mutual exclusion must be satisfied by the layer above this driver. Asserts

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. Building the driver

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. 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 60/20/10 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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This file contains a configuration table that specifies the configuration of the USB devices in the system. This file contains a configuration table that specifies the configuration of the USB devices in the system.
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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 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 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
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. 

**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
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 6/20/10 Added SIE Reset Mask (CR 660602)
4.04a bss 10/22/13 Added macros for HSIC PHY registers.

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embeddedsw/XilinxProcessorIPLib/drivers/usb/src/xusb_sinit.c

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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
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/data/v_hdmitxss.mdd
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FILES:
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/hdcp_key_utility/aes256.c
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/examples/hdcp_key_utility/aes256.c
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FILES:
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
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/examples/hdcp_key_utility/aes256.h
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/examples/xhdmi_example/aes256.c
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/examples/xhdmi_example/aes256.h
--------------------------------------------------------------------------------

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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.

FILEs:
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmi_example/sha256.c
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/examples/xhdmi_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_hdmitxss/examples/xhdmi_example/sha256.h

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FILEs:
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmi_example/idt_8t49n24x.c
eMBEDDED SW/XILINX PROCESSOR I PLC LIB/DRIVERS/V_HDMIRXSS/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:
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmi_example/idt_8t49n24x.h
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/examples/xhdmi_example/idt_8t49n24x.h

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embeddedsw/XilinxProcessorIPLib/drivers/video_common/src/xvidc_parse_edid.c

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FILES:
embeddedsw/XilinxProcessorIPLib/drivers/i2srx/data/xi2srx_header.h
embeddedsw/XilinxProcessorIPLib/drivers/spdif/data/xspdif_header.h

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embeddedsw/XilinxProcessorIPLib/drivers/i2stx/src/xi2stx_g.c
embeddedsw/XilinxProcessorIPLib/drivers/sdiaud/src/xsdiaud_g.c
embeddedsw/XilinxProcessorIPLib/drivers/spdif/src/xspdif_g.c
embeddedsw/lib/sw_apps/zynq_fsbl/misc/zc702/bspconfig.h
embeddedsw/lib/sw_apps/zynq_fsbl/misc/zc706/bspconfig.h
embeddedsw/lib/sw_apps/zynq_fsbl/misc/zed/bspconfig.h
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FILES:
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embeddedsw/XilinxProcessorIPLib/drivers/sd_fec/data/sd_fec.tcl

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\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<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.

\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, 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.

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for the SD-FEC. 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.

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/sd_fec/src/xsdfec.h

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FILES:
embeddedsw/lib/bsp/standalone/src/arm/common/putnum.c

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FILES:
embeddedsw/lib/bsp/standalone/src/arm/cortexa53/64bit/xpvxenconsole/xen.h

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(C) 2006 - Grzegorz Milos - Cambridge University File: console.h Author:
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FILES:
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FILES:
embeddedsw/lib/bsp/standalone/src/arm/cortexa53/64bit/xpvxenconsole/xen_console.h

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FILES:
embeddedsw/lib/bsp/standalone/src/arm/cortexa53/64bit/xpvxenconsole/xen_events.h

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print.c -- print a string on the output device. Copyright (c) 1995 Cygnus
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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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FILES:
embeddedsw/lib/sw_apps/ddr_self_refresh/src/main.c

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FILES:
embeddedsw/lib/sw_apps/freertos_hello_world/src/freertos_hello_world.c

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ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / 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_de
mod.c
embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/generic/zynqmp_r5/zynqmp_amp_demo/ipi_latency_de
mod.c

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ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / 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 | |0x04000 - 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_de mod.c
embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/generic/zynqmp_r5/zynqmp_amp_demo/ipi_shmem_de mod.c

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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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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 - 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_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:
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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
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
embeddedsw/lib/sw_apps/openamp_echo_test/src/machine/zynqmp_r5/rsc_table.h
embeddedsw/lib/sw_apps/openamp_matrix_multiply/src/machine/zynq7/rsc_table.c
embeddedsw/lib/sw_apps/openamp_matrix_multiply/src/machine/zynq7/rsc_table.h
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embeddedsw/lib/sw_apps/openamp_rpc_demo/src/machine/zynqmp_r5/rsc_table.c
embeddedsw/lib/sw_apps/openamp_rpc_demo/src/machine/zynqmp_r5/rsc_table.h

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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 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 (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 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 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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application that showcases usage of remoteproc and rpmsg APIs on the remote
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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
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using zynqMP_r5_gic_initialize API. The remoteproc_resource_init API is being
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master application 2. Responds to remote context with a name service
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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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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.

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Contains code to calculate checksum using md5 algorithm.

MODIFICATION HISTORY: Ver Who Date Changes ----- ---- --------
5.00a sgd 05/17/13 Initial release 

FILES:
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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_mkdir() 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_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. 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 multithread 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_iseek(). 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 .fname 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 cfg 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_iseek() 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_fdisk(). 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

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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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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 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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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.

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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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(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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1.378 presentproto
1.1+gitAUTOINC+bfdc7e0523-r0
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1.379 procps 3.3.12
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1.383 pulseaudio 10.0-r0

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1.384 python-certifi 2017.7.27.1-r0

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This package contains a modified version of ca-bundle.crt:

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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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@(#) SRCFile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.385 python-cffi-native 1.11.2-r0

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1.386 python-chardet 3.0.4-r0

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1.387 python-cryptography 2.0.3-r0

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1.388 python-cryptography-vectors 2.0.3-r0
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1.389 python-enum34 1.1.6-r0

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1.391 python-idna 2.6-r0

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1.394 python-itsdangerous 0.24-r0

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1.395 python-jinja2 2.9.6-r0

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Mersenne Twister

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

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    A C-program for MT19937, with initialization improved 2002/1/26.
    Coded by Takuji Nishimura and Makoto Matsumoto.

    Before using, initialize the state by using init_genrand(seed)
    or init_by_array(init_key, key_length).

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Sockets
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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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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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1.407 python-requests 2.18.4-r0

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1.411 python-setuptools-scm-native 1.15.6-r0

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1.412 python-six 1.11.0-r0

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1.413 python-twitter 3.4.0-r0

1.414 python-urllib3 1.22-r0

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* NTLM-authenticated HTTPSConnectionPool
* 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

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

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  * Code review, PEP8 compliance, benchmark fix

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* 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 Uurl.url, which unparses a Uurl

* 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@smarkets.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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1.4.15 python-werkzeug 0.10.4-r0

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1.421 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.

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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 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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History of the software

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://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 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 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
-------
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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
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- 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
---------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
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/*.*/

expat

-----
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zlib
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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu
cfuhash
-------

The implementation of the hash table used by the `mod:` `tracemalloc` is based on the cfuhash project:

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libmpdec
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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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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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That's all there is to it!
1.425 python3-pyserial 3.4-r0

1.425.1 Available under license:

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1.426 python3-pyyaml-native 3.12-r0
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1.427 python3-six-native 1.10.0-r0
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1.428 python3-smmap 0.9.0-r0

1.429 qemu-devicetrees xilinx-v2018.2+gitAUTOINC+181fb68257-r0

1.430 qemu-native 2.10.0-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 },
    { TARGET_FREEBSD_NR___acl_delete_fd, "__acl_delete_fd", "%s(%d,%d)\", NULL, NULL },
    { TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s("\"%s\",%d)\", NULL, NULL },
    { TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s("\"%s\",%d)\", NULL, NULL },
    { TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d,%d,%#x)\", NULL, NULL },
    { TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s("\"%s\",%d,%#x)\", NULL, NULL },
    { TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s("\"%s\",%d,%#x)\", NULL, NULL },
    { TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d,%d,%#x)\", NULL, NULL },
    { TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s("\"%s\",%d,%#x)\", NULL, NULL },
    { TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s("\"%s\",%d,%#x)\", NULL, NULL },
    { TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "_umtx_op", "%s(\%d, %d, \%d, \%d)\"", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(\%d,\%d,\%d)\"", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s("\%s",\%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "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\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod\", "%s(\%s\",\%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_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,%d,%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\",\%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve\", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit\", "%d(\%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl\", "%s(\"%s\", %d, \"%s\", %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_extattr_get_fd, "extattr_get_fd\", "%s(\%d, %d, \"%s\", %d, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file\", "%s(\"%s\", %d, \"%s\", %d, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_link, "extattr_get_link\", "%s(\"%s\", %d, \"%s\", %d, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd\", "%s(\%d, %d, \"%s\", %d, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file\", "%s(\"%s\", %d, \"%s\", %d, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link\", "%s(\"%s\", %d, \"%s\", %d, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod\", "%s(\%d,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown\", "%s(\%d,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen\", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,"%s", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirent, "getdirent", "getdirent", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "getgid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s("%s",%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s("%s", %d)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },

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5532
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s\"lstat\",%p\"", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s\"mkdir\",%#o\"", NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s\"mknod\",%#o,%#x\"", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s\%#,%#,%d\"", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s\%p,%d\"", NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s\"open\",%#x,%#o\"", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s\%d,\"open\",%#x,%#o\"", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s\"pathconf\",%#d\"", NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s\"rename\",\"\"\", 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)" },
{ 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_socket, "socket", "%s(%d,%d,%d)" },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(" },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(" },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(" },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x,%#x,%d)" },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)" },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d,%#x)" },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d,%d,%d)" },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x,%d)" },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)" },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d,\"%s\")\", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)\", 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_NR_unmount, "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,%#x,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)\", 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 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_geteuid 24
#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_prof 44
#define TARGET_FREEBSD_NR_getlogin 45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_ioctl 49
#define TARGET_FREEBSD_NR_reboot 50
#define TARGET_FREEBSD_NR_execve 51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_vadvise 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_revoke 55
#define TARGET_FREEBSD_NR_vfork 56
#define TARGET_FREEBSD_NR_vfork 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_vfork 59
#define TARGET_FREEBSD_NR_symlink 60
#define TARGET_FREEBSD_NR_execve 61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_sbrk 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_vfork 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_getpgid 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 getsockname */
#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_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_fpatherconf 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_ftruncate 201
#define TARGET_FREEBSD_NR___sysct 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___semct 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7___msgct 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_mgsnd 226
#define TARGET_FREEBSD_NR_mgsrvc 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmct 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_gettime 237
#define TARGET_FREEBSD_NR_ktimer_getoverrun 238
#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_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_schedGetscheduler 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_siganction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 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
#define TARGET_FREEBSD_NR_afs3_syscall 369
#define TARGET_FREEBSD_NR_nmount 370
#define TARGET_FREEBSD_NR___mac_get_proc 371
#define TARGET_FREEBSD_NR___mac_set_proc 372
#define TARGET_FREEBSD_NR___mac_get_fd 373
#define TARGET_FREEBSD_NR___mac_set_fd 374
#define TARGET_FREEBSD_NR___mac_set_file 375
#define TARGET_FREEBSD_NR___setugid 376
#define TARGET_FREEBSD_NR___mac_get_proc 377
#define TARGET_FREEBSD_NR___mac_set_proc 378
#define TARGET_FREEBSD_NR___mac_get_fd 379
#define TARGET_FREEBSD_NR___mac_set_fd 380
#define TARGET_FREEBSD_NR___mac_set_file 381
#define TARGET_FREEBSD_NR_kenv 382
#define TARGET_FREEBSD_NR_lchflags 383
#define TARGET_FREEBSD_NR_uuidgen 384
#define TARGET_FREEBSD_NR_sendfile 385
#define TARGET_FREEBSD_NR_mac_syscall 386
#define TARGET_FREEBSD_NR_getfsstat 387
#define TARGET_FREEBSD_NR_statfs 388
#define TARGET_FREEBSD_NR_fstatfs 397
#define TARGET_FREEBSD_NR_fstatfs 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_open 404
#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_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_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   451
#define TARGET_FREEBSD_NR_setaudit_addr  452
#define TARGET_FREEBSD_NR_getaudit_addr  453
#define TARGET_FREEBSD_NR_auditctl  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_pkill 519
#define TARGET_FREEBSD_NR_pdgetattr 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_MAXSYSCALL 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_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_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_seteuid     183
#define TARGET_OPENBSD_NR_lfs_bmapv   184
#define TARGET_OPENBSD_NR_lfs_markv   185
#define TARGET_OPENBSD_NR_lfs_segelean 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___sysctl    201
#define TARGET_OPENBSD_NR_ftruncate   202
#define TARGET_OPENBSD_NR_mlock       203
#define TARGET_OPENBSD_NR_munlock     204
#define TARGET_OPENBSD_NR_futimes     205
#define TARGET_OPENBSD_NR_getpgid     206
#define TARGET_OPENBSD_NR_xfsioctl    207
#define TARGET_OPENBSD_NR_semget      208
#define TARGET_OPENBSD_NR_msgget      221
#define TARGET_OPENBSD_NR_msgsnd      226
#define TARGET_OPENBSD_NR_msgrcv      227
#define TARGET_OPENBSD_NR_shmat       228
#define TARGET_OPENBSD_NR_shmdt       229
#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_msctl 297
# define TARGET_OPENBSD_NR_sched_yield 298
# define TARGET_OPENBSD_NR_getthrid 299
# define TARGET_OPENBSD_NR_thrsleept 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_getfstat 306
# define TARGET_OPENBSD_NR_lstat 307
# define TARGET_OPENBSD_NR_fstat 308
# define TARGET_OPENBSD_NR_fhstat 309

/* 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 01:33:52 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 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_EPROMOTYPE 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_ENOTCONN 57 /* Socket is not connected */
#define TARGET_ESHUTDOWN 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 */

/* 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_EPERM 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_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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 *
#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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ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
endif
export TOP
include $(TOP)/make.rules

SUBDIRS=
ifeq ($(SNK_BIOSEMU_APPS), 1)
SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)

all :
for subdir in $(SUBDIRS) ; do $(MAKE) -C $${subdir} || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $${subdir} $@ ; done

Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
    x86emu_dump_regs();
    if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
        x86emu_dump_xregs();
+    } else {
+        x86emu_dump_regs();
+    }
}
    if (DEBUG_TRACE()) {
        x86emu_dump_regs();
    
if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
    printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
for (i=0; i< M.x86.enc_pos; i++) {

sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
}
- printk("%-20s",buf1);
+ printk("%-20s ",buf1);
}
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.c7 Sep 2007 10:01:21 -00001.1
+++ ops2.c20 Mar 2008 15:48:34 -00001.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", target);
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");

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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("EDI\n");
    M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
    break;
  }
  TRACE_AND_STEP();
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
/* 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.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops.c	20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
     push_long(imm);
 } else {
     push_word(imm);
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
 }
@@ -1256,8 +1260,10 @@
     M.x86.R_IP = target;
+  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;
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--) {
@@ -2574,6 +2586,8 @@
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2598,16 +2612,21 @@
    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);
        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 {
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
        while (M.x86.R_CX != 0) {
            /* move them until 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);
                    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 {
    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) {
            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--)
    }
    END_OF_INSTR();
}

/* move them until (E)CX is ZERO. */
while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
    if (M.x86.intr & INTR_HALTED)
        break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    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;
    } else {
        /* 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;
} 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);
            }
            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;
} else {
    @ @ -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;
} else {
    @ @ -3238,9 +3300,9 @ @
    DECODE_PRINTF("RETu");
    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();
@@ -3254,9 +3316,9 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
-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");
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
    DECODE_PRINTF("RETF\n");
    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();
@@ -3488,10 +3550,10 @@
{
    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”, 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();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2(“%04x”, 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) /* (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();
ip += (s16)M.x86.R_IP;

DECODE_PRINTF2("%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_PRINTF2("%04x:", cs);
            DECODE_PRINTF2("%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_PRINTF2("%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_32BIT_REP;
        DECODE_CLEAR_SEGOVR();
        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)
{
  #ifdef  __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)
{
  #ifdef  __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 & SYSMODEPREFIX_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 & SYSMODEPREFIX_DATA) {

if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
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) ?
        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;
}
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	1.1
+++ sys.c	7 Sep 2007 10:03:13 -0000	1.2
@@ -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

#ifndef IN_MODULE
#include "xf86_ansic.h"
#endif
if (DEBUG_IO_TRACE())
    printk("inb %04x \n", addr);
    return inb(addr);
+return 0;
}

/***************************************************************************/
@@ -235,7 +230,7 @@
{
    if (DEBUG_IO_TRACE())
    printk("inw %#04x \n", addr);
-    return inw(addr);
+    return 0;
}

/***************************************************************************/
@@ -250,7 +245,7 @@
{
    if (DEBUG_IO_TRACE())
    printk("inl %#04x \n", addr);
-    return inl(addr);
+    return 0;
}

/***************************************************************************/
@@ -264,7 +259,6 @@
{
    if (DEBUG_IO_TRACE())
    printk("outb %#02x -> %#04x \n", val, addr);
-    outb(val, addr);
    return;
}

@@ -279,7 +273,6 @@
{
    if (DEBUG_IO_TRACE())
    printk("outw %#04x -> %#04x \n", val, addr);
-    outw(val, addr);
    return;
}

@@ -295,7 +288,6 @@
DB(if (DEBUG_IO_TRACE()))
      printk("outl %#08x -> %#04x \n", val, addr);
-    outl(val, addr);
    return;
}

@@ -405,6 +397,6 @@
void X86EMU_setMemBase(void *base, size_t size) {
-M.mem_base = (int) base;
+M.mem_base = (unsigned long) base;
M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
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 @@
 #ifndef __X86EMU_DEBUG_H
 #define __X86EMU_DEBUG_H
 /*---------------------- Macros and type definitions ----------------------*/
-#define DEBUG 0
-#undef DEBUG
/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
#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_SYSINT()        0
#define DEBUG_TRACECALL()     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)    
if (DEBUG_TRACECALLREGS())

x86emu_dump_regs();

if (DEBUG_TRACECALL())
    printk("%04x:%04x: %s\n",u,v,n);
if (DEBUG_TRACEJMPREGS())
    x86emu_dump_regs();
if (DEBUG_TRACEJMP())
    printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);

#define  JMP_TRACE(u,v,w,x,s)
    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  JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
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.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/regs.h	15 Jan 2008 13:46:40 -0000	1.4
@@ -231,6 +231,9 @@
  #define SYSMODE_PREFIX_REPNE    0x00000100
  #define SYSMODE_PREFIX_DATA     0x00000200
  #define SYSMODE_PREFIX_ADDR     0x00000400
+  //phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+  //the 32bit ECX register as or the 16bit CX register as count register
  #define SYSMODE_32BIT_REP       0x00000800
@@ -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
*/

text xx

volatile int    intr; /* mask of pending interrupts */
-int       debug;
+ volatile int debug;
#endif 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   Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h   Sep 2007 10:01:21 -0000 1.1
@@ -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 */
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# *
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 ./include -I ./include/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 $@ $^ 

%.o: %.c
 $(CC) $(CFLAGS) -c -o $@ $^ 

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJS)
 $(AR) -rc $@ $^ 
 $(RANLIB) $@

clean:
 $(RM) *.o *.i *.s libx86emu.a

distclean:
 # ***************************************************************************
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#!/bin/bash

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 fromNetBSD: 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
#define TARGET_NETBSD_NR_read        3
#define TARGET_NETBSD_NR_write       4
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#define TARGET_NETBSD_NR_close       6
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#define TARGET_NETBSD_NR_ktrace 45
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#define TARGET_NETBSD_NR_compat_13_sigprocmask13 48
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1.431 qemu-xilinx-native v2.11.0-xilinx-v2018.2+gitAUTOINC+f5fb2a88ff-r0

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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "_acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR___acl_aclcheck_link, "_acl_aclcheck_link", "%s("%s", %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x, %#x)", NULL, NULL },

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{ TARGET_FREEBSD_NR_access, "access", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
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[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", "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_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsetuid, "setsetuid", 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_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt2, "setsockopt2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%d(%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(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit2, "thr_exit2", "%s(%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%d,%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_new, "thr_set_new", "%s(%d,%d,%d)", 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 },
* System call numbers.

* created from FreeBSD: releng/9.1/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_profil 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_getpriority   100
  /* 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
  /* 123 is obsolete vtrace */
#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 getsockname */
#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
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semssys 169
#define TARGET_FREEBSD_NR_mssys 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 entries 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___syscall 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR__sysct 205
#define TARGET_FREEBSD_NR__sysct 206
#define TARGET_FREEBSD_NR__sysct 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___semctl 223
#define TARGET_FREEBSD_NR_semget 224
#define TARGET_FREEBSD_NR_msgset 225
#define TARGET_FREEBSD_NR_msgset 226
#define TARGET_FREEBSD_NR_msgset 227
#define TARGET_FREEBSD_NR_msgset 228
#define TARGET_FREEBSD_NR_freebsd7___semctl 229
#define TARGET_FREEBSD_NR_semget 230
#define TARGET_FREEBSD_NR_shmat 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_gettime 233
#define TARGET_FREEBSD_NR_clock_gettime 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_delete 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_gettime 239
#define TARGET_FREEBSD_NR_ktimer_gettime 240
#define TARGET_FREEBSD_NR_ktimer_gettime 241
#define TARGET_FREEBSD_NR__sysct 248
#define TARGET_FREEBSD_NR__sysct 249
#define TARGET_FREEBSD_NR__sysct 250
#define TARGET_FREEBSD_NR__sysct 251
#define TARGET_FREEBSD_NR__sysct 252
#define TARGET_FREEBSD_NR__sysct 253
#define TARGET_FREEBSD_NR__sysct 254
#define TARGET_FREEBSD_NR__sysct 255
#define TARGET_FREEBSD_NR__sysct 256
#define TARGET_FREEBSD_NR__sysct 257
#define TARGET_FREEBSD_NR__sysct 258
#define TARGET_FREEBSD_NR__sysct 259
#define TARGET_FREEBSD_NR__sysct 260
#define TARGET_FREEBSD_NR__sysct 261
#define TARGET_FREEBSD_NR__sysct 262
#define TARGET_FREEBSD_NR__sysct 263
#define TARGET_FREEBSD_NR__sysct 264
#define TARGET_FREEBSD_NR__sysct 265
#define TARGET_FREEBSD_NR__sysct 266
#define TARGET_FREEBSD_NR__sysct 267
#define TARGET_FREEBSD_NR__sysct 268
#define TARGET_FREEBSD_NR__sysct 269
#define TARGET_FREEBSD_NR__sysct 270
#define TARGET_FREEBSD_NR__sysct 271
#define TARGET_FREEBSD_NR__sysct 272
#define TARGET_FREEBSD_NR__sysct 273
#define TARGET_FREEBSD_NR__sysct 274
#define TARGET_FREEBSD_NR__sysct 275
#define TARGET_FREEBSD_NR__sysct 276
#define TARGET_FREEBSD_NR__sysct 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_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_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_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_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_kldunload 445
#define TARGET_FREEBSD_NR_audit 446
#define TARGET_FREEBSD_NR_getuid 447
#define TARGET_FREEBSD_NR_setuid 448
#define TARGET_FREEBSD_NR_getaudid 449
#define TARGET_FREEBSD_NR_setaudid 450
#define TARGET_FREEBSD_NR_getaudid_addr 451
#define TARGET_FREEBSD_NR_setaudid_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_mknodat 497
#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_openpt 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_msgct1 511
#define TARGET_FREEBSD_NR_shmct1 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 522
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct 525
#define TARGET_FREEBSD_NR_rctl_get_rules 526
#define TARGET_FREEBSD_NR_rctl_get_limits 527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule 529
#define TARGET_FREEBSD_NR_posix_fallocate 530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSSCALL 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_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_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_setssockopt 105
#define TARGET_OPENBSD_NR_listen 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_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segeclean 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___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_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___setuid 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
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#define TARGET_OPENBSD_NR_thrsleep 300
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#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_getfstat 307
#define TARGET_OPENBSD_NR___fstatfs 308
#define TARGET_OPENBSD_NR_fhstatfs 309

/* 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 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_EPROFS           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_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_ENOTEMPTY      58              /* Can't send after socket shutdown */
#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_ENOMEDIUM 85   /* No medium found */
#define TARGET_EMEDIUMTYPE 86 /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87   /* Conversion overflow */
#define TARGET_EILSEQ 88     /* Illegal byte sequence */
#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
#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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/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
* System call numbers.
*
* created fromNetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
*/
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#define TARGET_NETBSD_NR_fork        2
#define TARGET_NETBSD_NR_read        3
#define TARGET_NETBSD_NR_write       4
#define TARGET_NETBSD_NR_open        5
#define TARGET_NETBSD_NR_close       6
#define TARGET_NETBSD_NR_wait4       7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link        9
#define TARGET_NETBSD_NR_unlink      10
#define TARGET_NETBSD_NR_chdir       12
#define TARGET_NETBSD_NR_fchdir      13
#define TARGET_NETBSD_NR_mknod       14
#define TARGET_NETBSD_NR_chmod       15
#define TARGET_NETBSD_NR_chown       16
#define TARGET_NETBSD_NR_break       17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek 19
#define TARGET_NETBSD_NR_getpid      20
#define TARGET_NETBSD_NR_getppid     39
#define TARGET_NETBSD_NR_dup         41
#define TARGET_NETBSD_NR_pipe        42
#define TARGET_NETBSD_NR_getegid     43
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#define TARGET_NETBSD_NR_ktrace      45
#define TARGET_NETBSD_NR_compat_13_sigaction13 46

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#define TARGET_NETBSD_NR_setuid      23
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_geteuid     25
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Version 3, 29 June 2007

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src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk

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src/pcf/pcf.c
src/pcf/pcf.h
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src/pcf/pcferror.h
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src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk

src/gzip/adler32.c
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
#
src/tools/ftrandom/ftrandom.c
#
# EOF
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1.435 qtconnectivity

5.9.4+gitAUTOINC+6eba2055ba-r0

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"A generic solution to polygon clipping"
http://portal.acm.org/citation.cfm?id=129906

Computer graphics and geometric modeling: implementation and algorithms
By Max K. Agoston
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See also:
"Polygon Offsetting by Computing Winding Numbers"
Paper no. DETC2005-85513 pp. 565-575
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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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(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.

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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 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.

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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.

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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a textual and legal sense, the linked executable is a combined work, a
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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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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 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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Version 3, 29 June 2007

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1.457 quilt-native 0.65-r0

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/* C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser. */

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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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1.464 resourceproto 1.2.0-r1

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1.466 rpcbind 0.2.4-r0

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Melchor Rabe <rrdtool at mrab.de> -- legend position patch
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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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1.471 rsync-native 3.1.2

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(a)

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# frozen_string_literal: true
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
AMDPPLPA
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
CC-BY-4.0
CC-BY-NC-1.0
CC-BY-NC-2.0
CC-BY-NC-2.5
CC-BY-NC-3.0
CC-BY-NC-4.0
CC-BY-NC-ND-1.0
CC-BY-NC-ND-2.0
CC-BY-NC-ND-2.5
CC-BY-NC-ND-3.0
CC-BY-NC-ND-4.0
CC-BY-NC-SA-1.0
CC-BY-NC-SA-2.0
CC-BY-NC-SA-2.5
CC-BY-NC-SA-3.0
CC-BY-NC-SA-4.0
CC-BY-ND-1.0
CC-BY-ND-2.0
CC-BY-ND-2.5
CC-BY-ND-3.0
CC-BY-ND-4.0
CC-BY-SA-1.0
CC-BY-SA-2.0
CC-BY-SA-2.5
CC-BY-SA-3.0
CC-BY-SA-4.0
CC0-1.0
CDDL-1.0
CDDL-1.1
CECILL-1.0
CECILL-1.1
CECILL-2.0
CECILL-2.1
CECILL-B
CECILL-C
CNRI-Jython
CNRI-Python
CNRI-Python-GPL-Compatible
CPAL-1.0
CPL-1.0
CPOL-1.02
CUA-OPL-1.0
Caldera
ClArtistic
Condor-1.1
Crossword
CrystalStacker
Cube
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
EriPL-1.1
Eurosym
FSFUL
FSFULLR
FTL
Fair
Frameworks-1.0
FreImage
GFDL-1.1
GFDL-1.2
GFDL-1.3
GL2PS
GPL-1.0
GPL-2.0
GPL-3.0
Giftware
Glide
Glulxe
HPND
HaskellReport
IBM-pibs
ICU
IJK
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
LGPLLIR
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
NPOSL-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
Wsui pa
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)}\+?
\s WITH \s .+?)?\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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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_ip.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

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http://www.geocities.jp/kosako3/oniguruma/
http://www.ruby-lang.org/cgi-bin/cvsweb.cgi/oniguruma/
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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%JISX0213-1.src:
enc/trans/JIS/UCS%BMP%JISX0213-2.src:
enc/trans/JIS/UCS%SIP%JISX0213-1.src:
enc/trans/JIS/UCS%SIP%JISX0213-2.src:
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tool/config.guess:
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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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
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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strftime.c:
included/ruby/st.h:
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missing/aloca.c:
missing/dup2.c:
missing/errno.c:
missing/finite.c:
missing/hypot.c:
missing/isinf.c:
missing/isnan.c:
missing/lgamma_r.c:
missing/memcmp.c:
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missing/setproctitle.c

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missing/strlcat.c
missing/strlcpy.c

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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/nkf/nkf-utf8/nkf.c:
ext/nkf/nkf-utf8/utf8tbl.c:

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patch was accepted into Ruby.

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* He had maintained the VMS support on 2003-2004.

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* net/pop
* net/smtp
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* ripper
* strscan

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* He was the maintainer of some standard libraries.

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arton
* He is the distributor of ActiveScriptRuby and experimental 1.9.0-x installers for win32.
* Wrote patches for win32ole, gc.c, tmpdir.rb

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* a patch for irb
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* ruby_strtod is based on his paper.

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* committer

Zach Dennis

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* committer
* M17N

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erlercw
* wrote Integer::gcd2

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* a patch for process.c

Mauricio Fernandez
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* M17N

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* a patch for tracer.rb

Shota Fukumori (sorah)
* committer
* #4415 parallel unit/test

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* He wrote and is the maintainer of
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* parsedate (1.8)
* He ported rational.rb and complex.rb, which 1.8 contains, into rational.c and complex.c of 1.9.

== G

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* ruby_strtod

Florian Gilcher
* documentation

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* He is the maintainer of:
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* open3

GOTOU, Yuuzou (gotoyuzo)
* committer

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* He wrote the faster implementation of CSV and is the maintainer of csv.
* Wrote documentation for rdoc

== H

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* patch for ruby-mode.el's documentation.
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* 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

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* He wrote:
  * SMTP-TLS support for net/smtp.
  * POP3S support

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  * rdoc
  * ri
  * rubygems

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Johan Holmberg
* a patch for dir.c
* documentation

Erik Huelsmann

Dae San Hwang
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"incorporate"
* a patch for sprintf.c
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  * 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

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* missing/dup2.c

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* a patch for net/ftp

Lyle Johnson
* patches for nkf, bigdecimal, numeric.c

== K

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* a patch for enc/trans/single_byte.trans.
* He wrote supports for some encodings.

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* patches for common.mk, AIX AF_INET6 support

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Wataru Kimura
* a patch for configure.in

Michael Klishin
* patch for make help.

Noritada Kobayashi
* a patch for optparse.rb

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Kornelius "murphy" Kalnbach
* documentation

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* committer
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Takehiro Kubo
* patches for dl 64bit support.

== L

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* patches for hash.c, array.c, thread.c, enumc, string.c, range.c and rdoc documentation.

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* patch for tool/file2lastrev.rb.

raspberry lemon
* a patch for webrick/httpproxy.rb.

Christian Loew
* a patch for fileutils.rb

== M

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* A system administrator of ruby-lang.org servers.
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  * 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

Mib Software
* missing/vsnprintf.c

Todd C. Miller
* missing/strlcat.c
* missing/strlcpy.c

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* 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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Nobuyoshi Nakada (nobu)
* committer
* a.k.a. the “patch monster”
* He wrote and is the maintainer of:
  * optparse
  * stringio
  * io/wait
  * iconv

Satoshi Nakagawa
* patches for util.c

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* committer
* a.k.a. authorNari
* working at GC

NAKAMURA, Hiroshi (nahi)
* committer
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  * csv.rb (1.8)
  * logger.rb
  * soap/* (1.8)
  * wsdl/* (1.8)
  * xsd/* (1.8)

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* committer
* a.k.a. unak
* He is the maintainer of mswin32 and mswin64 support.

NARUSE, Yui (naruse)
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* a.k.a. "nurse"
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* He is the maintainer of:
  * json
  * nkf

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* a patch for webrick/httputils

Michael Neumann (mneumann)
* committer
* He is the maintainer of
  * xmlrpc (1.8)
  * gserver (1.8)

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* wrote a patch for CVE-2010-0541

Kazuhiro NISHIYAMA (kazu)
* 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/tgamma.c

OMAE, jun
* a patch for debug.rb

Eugene Ossintsev
* documentation
== P

Heesob Park
* a patch for win32/win32.c.

pegacorn
* a patch for instruby.rb

== Q

== R

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

Sean Russell (ser)
* committer
* He wrote and is the maintainer of REXML.

== S

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)
* committer
* He wrote and is the maintainer of:
  * drb/*
  * erb
  * rinda

Roman Shterenzon
* a patch for open-uri.

Kent Sibilev

Gavin Sinclair (gsinclair)
* 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

Masaki Suketa (suke)
* 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

== T

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 m17n.
* 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

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.

Joel VanderWerf  
* a patch for numeric.c

Peter Vanbroekhoven

Corinna Vinschen

wanabe (wanabe)  
* committer  
* fixed YARV and Oniguruma.

Chun Wang  
* a patch for time.rb
WATANABE, Hiroyumi (eban)
* committer
* He is the maintainer of
  * ftools (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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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.

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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.

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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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1.480 settings-daemon 0.0.2-r0

1.481 shadow 4.2.1-r0

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The End

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1.484 shadow-sysroot 4.2.1-r3

1.485 shared-mime-info 1.8 -r0

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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.

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1.498 subversion 1.9.6-r0

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#!/usr/bin/env python
#
# 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
# r878444 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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"

SH_OLD_LICENSE = re.subn(r'(?m)^ \*', '#', OLD_LICENSE)[0]

# Remember not to do regexp quoting for NEW_LICENSE. Only OLD_LICENSE
# is used for matching; NEW_LICENSE is inserted as-is.
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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)
                    visit(baton, dir, i)

                if __name__ == '__main__':
                    main()
1.499 sudo 1.8.20p2-r0

1.499.1 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.

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Barron, Danny
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Benali, Elias
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Bowes, Keith
Boyce, Keith Garry
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Brooks, Piet
Brown, Jerry
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Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
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de Raadt, Theo
Rasch, Gudleik
Reid, Steve
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Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
SATO, Yuichi
Snezhez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
The following people have worked to translate sudo into other languages:

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Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
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Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
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Sarer, zgr
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Sikrom, ka
Spingos, Dimitris
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Uranga, Mikel Olasagasti
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1.500 swig-native 3.0.12 -r0
1.500.1 Available under license:

This package was debianized by Paul Russell <prussell@debian.org> on Sun, 31 Mar 2002 14:08:57 +0200.

It was downloaded from http://ccache.samba.org/ftp/ccache/

The ccache-zlib patch was downloaded from http://www.gustaebel.de/lars/ccache/

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Early bug reports and patches:

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1.502 syslinux 6.03-r0

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1.506 sysvinit 2.88dsf -r14

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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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"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">
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  tab-interval: 0.5in;
}

p {
  margin-left: auto;
  margin-top: 0.5em;
  margin-bottom: 0.5em;
}
p.list {
  margin-left: 0.5in;
  margin-top: 0.05em;
  margin-bottom: 0.05em;
}
</style>
</head>

<body lang="EN-US">

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1.512 tcl 8.6.7 -r0

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- C.1 GNU Free Documentation License
- C.1.1 ADDENDUM: How to use this License for your documents

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This manual is for GNU Texinfo (version 4.2, 28 March 2002), a documentation system that can produce both online information and a printed manual from a single source.

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    Karl Berry <karl@freefriends.org>
    Olaf Bachmann <obachman@mathematik.uni-kl.de>
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Maintained by: Many creative people.
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div.lisp {margin-left: 3.2em}
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div.smallexample {margin-left: 3.2em}
div.smalllisp {margin-left: 3.2em}
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pre.format {font-family: serif}
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pre.smalldisplay {font-family: serif; font-size: smaller}
pre.smallexample {font-size: smaller}
pre.smallformat {font-family: serif; font-size: smaller}
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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>
</source>
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```
@copying
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```

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```
@copying
This manual is for <var>program</var> (version <var>version</var>), Copyright ©<var>years</var> <var>copyright-owner</var>.
```
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blockquote.smallquotation {font-size: smaller}
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pre.smalldisplay {font-family: serif; font-size: smaller}
pre.smallexample {font-size: smaller}
pre.smallformat {font-size: smaller}
pre.smalllisp {font-size: smaller}
span.nocodebreak {white-space:pre}
span.nolinebreak {white-space:pre}
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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} \texttt{command inserts whitespace. The \texttt{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{filll}s in the word \texttt{filll}; this is correct.

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\begin{verbatim}
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\end{verbatim}

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\begin{verbatim}
@titlepage
...
@page
@vskip 0pt plus 1filll
@insertcopying
Published by &hellip;
Cover art by &hellip;
@end titlepage
\end{verbatim}
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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 <code>@ifplaintext</code> and <code>@end ifplaintext</code>; <code>makeinfo</code> includes this when writing plain text (&lsquo;<samp>--no-headers</samp>&rsquo;), along with an <code>@insertcopying</code>.
<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.4.1</td>
<td>Create a title for the printed document.</td>
</tr>
<tr>
<td>3.4.2</td>
<td>The <code>@titlefont</code>, <code>@center</code>, and <code>@sp</code> commands.</td>
</tr>
<tr>
<td>3.4.3</td>
<td>The <code>@title</code>, <code>@subtitle</code>, and <code>@author</code> commands.</td>
</tr>
<tr>
<td>3.4.4</td>
<td>How to write the copyright notice and include copying permissions.</td>
</tr>
<tr>
<td>3.4.5</td>
<td>Turn on page headings after the title and copyright pages.</td>
</tr>
<tr>
<td>3.4.6</td>
<td>An option for turning headings on and off and double or single sided printing.</td>
</tr>
</tbody>
</table>
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div.example {margin-left: 3.2em}
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span.sansserif {font-family:sans-serif; font-weight:normal}
ul.no-bullet {list-style: none}
</code>
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  Karl Berry <karl@freefriends.org>
  Olaf Bachmann <obachman@mathematik.uni-kl.de>
  and many others.
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  pre.smalldisplay {font-family: serif; font-size: smaller}
  pre.smallexample {font-size: smaller}
  pre.smallformat {font-family: serif; font-size: smaller}
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How to insert the TeX logo.
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Use the @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 @page:

@vskip 0pt plus 1filll

This is a TeX command that is not supported by the Info formatting commands. The @vskip command inserts whitespace. The '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 'l's in the word 'filll'; this is correct.

To insert the copyright text itself, write @insertcopying next (see Document Permissions):

@insertcopying

Follow the copying text by the publisher, ISBN numbers, cover art credits, and other such information.

Here is an example putting all this together:

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@page
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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.

* tex:: How to insert the TeX logo.
* copyright symbol:: How to use @copyright{ }.

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================================

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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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which ...

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- An introduction to CVS
- Where all your sources are stored
- Starting a project with CVS
- Numeric and symbolic names for revisions
- Diverging/rejoining branches of development
- CVS descends directories
- Adding, removing, and renaming files and directories
- Adding/merging branches of development
- Viewing the history of files in various ways
- CVS and the Real World.

- 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
- Issues related to CVS and builds
- Devices, links and other non-regular files

References.

- CVS commands share some things
- Quick reference to CVS commands
- Reference manual for Administrative files
- All environment variables which affect CVS
Dealing with bugs in CVS or this manual

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@heading Acknowledgements

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Currently, the Singular team has the following members:

- Olaf Bachmann
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SINGULAR version 3-0-0

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which &hellip;

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@quotation
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@end quotation
@end copying
```

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\begin{verbatim}
@vskip 0pt plus 1filll
\end{verbatim}

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ul.no-bullet {list-style: none}

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</body>
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<one line to give the program's name and a brief idea of what it does.>
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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.)

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

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

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

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

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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.

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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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.

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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.

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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 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.

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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.

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1.527 unifdef-native 2.11 -r0

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- end -

1.528 unzip 6.0
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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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.
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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 License. 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).

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*
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*
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"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.

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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 CONTRIBS in the source distribution for a much more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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1.529 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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   Author:Loovee
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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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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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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
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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
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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
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normally distributed (in either source or binary form) with the major
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1.536 v4l-utils 1.12.3 -r0

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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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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 than 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 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

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To: Hans de Goede <hdegoede@redhat.com>
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References: <4BF3A064.7080602@redhat.com>
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
Hi All,

I'm writing you all because you've contributed patches to the kernels v411 ioctl compat code living in v411-compat.c.

Most of you already know me, and know that I'm working on making libv411 become independent of the kernel v411 ioctl compat code, so that it can be removed from the kernel.

For those who don't know me or the v411 cleanup effort, read below for the long story.

Making libv411 independent of the v411-compat.c code in the kernel comes down to looking at what the kernel compat code does and then implementing that in libv411. This will likely involve some direct copying and libv411 is licensed under the LGPL rather than the GPL. I already have permission from Bill Dirks who wrote the initial v411-compat code to do this.

My question to you is would it be ok to use your v411 compat contributions under the LGPL inside libv411?

Permission granted.

Looking forward to seeing this in libv411 so we can kill this legacy code in the kernel.

Regards,

Hans Verkuil
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 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).

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 ioctl's, we are working on fixing this which involves re-using code from v4l1-compat.c, hence the

Thanks & Regards,

Hans
> 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
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>
> --
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> Hans Verkuil - video4linux developer - sponsored by TANDBERG, part of Cisco

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Message-ID: <4BF3F4B9.3060803@redhat.com>
Date: Wed, 19 May 2010 11:24:57 -0300
From: Mauro Carvalho Chehab <mchehab@redhat.com>
User-Agent: Thunderbird 2.0.0.22 (X11/20090609)
MIME-Version: 1.0
To: Hans de Goede <shdegoede@redhat.com>
CC: Gerd Hoffmann <kraxel@redhat.com>, Hans Verkuil <hverkuil@xs4all.nl>,
    Trent Piepho <xyzzy@speakeasy.org>,
    Huzaifa Sidhpurwala <huzaifas@redhat.com>
Subject: Re: Re-licensing v4l1-compat.c code which you wrote
References: <4BF3A064.7080602@redhat.com>
In-Reply-To: <4BF3A064.7080602@redhat.com>
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Scanned-By: MIMEDefang 2.67 on 10.5.11.21
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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(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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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1.539 videoproto 2.3.3 -r0

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*uganda.txt* For Vim version 8.0. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*

**SUMMARY**

*iccf* *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are
encouraged to make a donation for needy children in Uganda. Please see [kcc]
below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for
features. See [sponsor]. The money goes to Uganda anyway.
The Open Publication License applies to the Vim documentation, see [manual-copyright].

=== begin of license ===

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I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
   a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.
   b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.
   c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.
   d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:
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- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.
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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.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- 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* *Kibaale* *charity*

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

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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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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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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.

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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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.

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

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

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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.

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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").

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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.

      (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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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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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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enhancements to semaphores;
enhancements to mutexes;
new mutex implementation in 'futex' style;
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similar to that implemented by V.Kliathcko;
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Changes to make C version usable with C++ applications;
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reimplemented pthread_once with the same form
as described by A. Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.
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1.545 wget 1.19.1-r0

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1.546 whetstone 1.0-r0

1.547 which 2.21-r3

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Description: Change location of license file in about dialog
Forwarded: not-needed
Author: Frederic Peters <fpeters@debian.org>

```c
--- a/ui/gtk/about_dlg.c
+++ b/ui/gtk/about_dlg.c
@@ -516,7 +516,7 @
#if defined(_WIN32)
    absolute_path = get_datafile_path("COPYING.txt");
#else
-   absolute_path = get_datafile_path("COPYING");
+   absolute_path = get_datafile_path("ABOUT.GPL");
#endif
    page = text_page_new(absolute_path);

--- a/ui/qt/about_dialog.cpp
+++ b/ui/qt/about_dialog.cpp
@@ -341,7 +341,7 @
#if defined(_WIN32)
    f_license.setFileName(get_datafile_path("COPYING.txt"));
#else
-   f_license.setFileName(get_datafile_path("COPYING"));
+   f_license.setFileName(get_datafile_path("ABOUT.GPL"));
#endif
    f_license.open(QFile::ReadOnly | QFile::Text);
```

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"""Makes sure that all files contain proper licensing information."""

import optparse
import os.path
import subprocess
import sys

def PrintUsage():
print("""Usage: python checklicenses.py [--root <root>] [tocheck]
--root Specifies 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 Specifies 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',

Open Source Used In NCS1004 7.0.0

8974


'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)',
'TSC',
'TSC 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',
'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',
],
'epan/except.c': [  'UNKNOWN',
],
'epan/except.h': [  'UNKNOWN',
],
'cmake/TestFileOffsetBits.c': [  'UNKNOWN',
],
'cmake/TestWindowsFSeek.c': [  'UNKNOWN',
],
'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.c': [ # 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',
],
'epan/dissectors/pidl/idl_types.h': [  'UNKNOWN',
],
'epan/dissectors/pidl/mapi/request.cnf.c': [

# 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',
],
'epan/dissectors/pidl/mapi/request.cnf.c': [  
# 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',
],
'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)'  
]
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,
        '-l', '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/):
        continue

    # 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 = "%s' has non-whitelisted license '%s'" % (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():
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('-v', '--verbose', action='store_true',
default=False, help='Print debug logging')
option_parser.add_option('--ignore-suppressions',
action='store_true',
default=False,
help='Ignore path-specific license whitelist.')
options, args = option_parser.parse_args()
return check_licenses(options, args)

if '__main__' == __name__:
sys.exit(main())

Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD
========================================================================
1. Extra packages required
2. Compiling Wireshark
3. Berkeley Packet Filter (BPF) requirement
4. Running Wireshark as a non-root user

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:
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  
rerun 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.

1.550 wpa-supplicant 2.6 -r0
1.550.1 Available under license :

wpa_supplicant and hostapd

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1.558 xcmiscproto 1.2.2-r0

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1.559 Xilinx common patch for u-boot
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