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Version 2.1, February 1999

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

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

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

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

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1.3 alsalib 1.1.4.1-r0

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1.7 alsa-utils 1.1.4-r0

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1.8 apr 1.6.2-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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<h4 class="appendixsubsec">H.2.1 Preamble</h4>

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1.14 at-spi2-atk 2.24.1-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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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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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1.17 autoconf 2.69 :r11.0
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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
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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
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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
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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.

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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specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

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

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

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which the executable runs, unless that component itself accompanies
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   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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1.29 binutils 2.29-r0
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BEGIN{
    FS="\"";
    print "/\" ==> Do not modify this file!! " \n    ":-\" buffer-read-only: t :-\" vi" \n    ":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\"");\n", $NF;
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file, as requested by the FSF.

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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#
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#
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# that carries a non-FSF copyright.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
# is the command that would be used at the beginning of a year to update
# 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',
'ltsgular.m4',
'ltversion.m4',
'lt~obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

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

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

self.skip_extensions |= set ([
    # Maintained by the translation project.
    '.po',
    
    # Automatically-generated.
    '.pot',
    ])

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

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

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

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

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

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

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

    return False

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

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

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

def by_package_author(self, dir, filename):
    return filename in self.own_files
class Copyright:
    def __init__(self, errors):
        self.errors = errors

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

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

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

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

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

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

    self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
# True to 'quilt add' files before changing them.
self.use_quilt = False

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

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

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

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

class BadYear():
    def __init__(self, year):
        self.year = year
    def __str__(self):
        return 'unrecognised year: ' + self.year

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

    holder = match.group (4)

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

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

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

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

        # Make sure the author is given in a consistent way.
        line = (line[:match.start (4)]
                + canon_form
                + line[match.end (4):])
# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]

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

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

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

# Strip trailing whitespace
line = line.rstrip() + 'n'

return (line != orig_line, line, next_line)

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

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

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

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

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

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

class CmdLine:
    def __init__(self, copyright = Copyright):
self.errors = Errors()
self.copyright = copyright (self.errors)
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
    ' % sys.argv[0])
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s
    ' % sys.argv[0])
    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] != '-':
            continue
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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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.
You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
This General Public License does not permit incorporating your program into
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consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
#! /usr/bin/env python
# Copyright (C) 2011-2017 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3 of the License, or
# (at your option) any later version.
#
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# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program. If not, see <http://www.gnu.org/licenses/>.
"""copyright.py
This script updates the list of years in the copyright notices in
most files maintained by the GDB project.

Open Source Used In IOS XR 700 7.0.0

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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)
            for filename in files:
                relpath = "%s/%s" % (root, filename)
                if (filename in EXCLUDE_ALL_LIST
                    or relpath in EXCLUDE_LIST
                    or relpath in NOT_FSF_LIST
                    or relpath in BY_HAND):
                    # Ignore this file.
                    pass
                else:
                    result.append(relpath)
    return result

def update_files(update_list):
    """Update the copyright header of the files in the given list."""
We use gnulib’s update-copyright script for that.

```
# We want to use year intervals in the copyright notices, and
# all years should be collapsed to one single year interval,
# even if there are "holes" in the list of years found in the
# original copyright notice (OK’ed by the FSF, case [gnu.org #719834]).
# 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('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/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.c", "sim/arm/armsupp.c", "sim/arm/main.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-acctfp.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",
"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/emul_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
"sim/ppc/emul_chirp.c", "sim/ppc/hw_nram.c", "sim/ppc/dc-test.01",
"sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
"sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
"sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/id-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/id-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/id-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/instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/id-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/ff.c", "sim/ppc/ff.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-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
    main()
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright © 2007 Free Software Foundation, Inc. @url{http://fsf.org/}
Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@c man end
@end ignore
@c node Copying
@c man begin DESCRIPTION
@appendix GNU GENERAL PUBLIC LICENSE
@c The GNU General Public License.
@c center Version 3, 29 June 2007
@c This file is intended to be included within another document,
@c hence no sectioning command or @node.
@display
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.
@end display
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@enumerate
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@end enumerate

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

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@end smallexample

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@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
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This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end smallexample

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1.30 binutils-cross-aarch64 2.29r0

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```python
#!/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.

"""

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.

```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.PIPE)
    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 :
    
    if not os.path.isfile("gnulib/import/extra/update-copyright"):
        print "Error: This script must be called from the gdb directory."
    os.chdir(path.dirname(os.getcwd()))

    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

    # 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",
  "gdbNamearch.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/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
  "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
  "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
  "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
  "sim/arm/arminit.c",
  "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
  "sim/common/cgen-accfp.c",
  "sim/mips/m16run.c", "sim/mips/sim-main.c",
  "sim/moxie/moxie-gdb.dts",
  # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
  "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
  "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
  "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
  "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
  "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
  "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
  )
if __name__ == '__main__':
    main()

BEGIN{
    FS="\"
    print "/* ==> Do not modify this file!!  
   It is created automatically by copying.awk.*/"
    
    
    print "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
\n";
}
else if ($0 !~ /^[ ]*15\. Disclaimer of Warranty\[, ]*$/)
{
    printf " printf_filtered (""
    for (i = 1; i < NF; i++)
printf "\n%\", $NF;
}
]*15\. Disclaimer of Warranty\[, ]*$/
/* ]*15\. Disclaimer of Warranty\[, ]*$/
print "]\);"
print "";
print "static void";
print "show_copying_command (char *ignore, int from_tty);
print "{";
}
/* ]*15\. Disclaimer of Warranty\[, ]*$/ /
/* ]*END OF TERMS AND CONDITIONS]]*$/
if (! ($0 ~ /
/* ]*END OF TERMS AND CONDITIONS]]*$/)
{
    printf " printf_filtered (""
    for (i = 1; i < NF; i++)
printf "\n\n%\", $NF;
}
}
*/END{
print "]\);"
print "";
print "void"
print "_initialize_copying (void)";
print "{";
print " add_cmd ("copying", no_set_class, show_copying_command,=";
print "t("Conditions for redistributing copies of GDB."),=";
print " &showlist);=";
print " add_cmd ("warranty", no_set_class, show_warranty_command,=";
print "t("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 "t("Conditions for redistributing copies of GDB."));=";
print " add_info ("warranty", show_warranty_command,=";
print "t("Various kinds of warranty you do not have."));=";
print "}]";
}@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright © 2007 Free Software Foundation, Inc. @url{http://fsf.org/}
Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
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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 IntellCORP contributed some AIX 386 support.

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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iconv (Charset Conversion Library) v2.0

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#
# 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',
            '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',
            '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',
        ])

        return self.num_errors == 0
'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 (r'^\t')
    return None

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

return False

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

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

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

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

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][?:\-0-9..s][s+and$]+[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.
            '((C|c)opyright'  # |[Cc]opyright\[Cc\])'  # |[Cc]opyright\(|Cc\])'
            '[Cc]opyright\+\(|Cc\])'
            '[Cc]opyright\%s'  # |[Cc]opyright$s+\&copy,'  # |[Cc]opyright\+\(copyright\)'  # @set\+\(copyright\)'  # @set\+\(copyright\)' [Cc]opyright\+\(copyright\)'  # @set\+\(copyright\)[w-.]+')

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

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

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

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

# Goes after the year(s). Could be ',', '.
sel.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):
  sel.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
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')
            else:
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] == '\n'
        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...

        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'
        for (dir, filter) in self.dirs:
            sys.stdout.write (format % dir)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

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

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

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

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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

Open Source Used In IOS XR 700 7.0.0

719


printf "%s\n", $i;
    printf "%s\n\n", $NF;
}
}
END{
    print "\}"
    print "\n"
    print "\n";
    print "\n";
    print "\n";
    print "\n";
    print "\n";
    print "\n";
}

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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 as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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strategy to use in any particular case, based on the explanations below.

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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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and what the program that uses the Library does.

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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.

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

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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.

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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

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

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

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<signature of Ty Coon>, 1 April 1990
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
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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.

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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
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The root function must still compute square roots.

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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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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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(17) - Adapteva, Inc. (epiphany-* targets)

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#!/usr/bin/python
#
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#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# 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',
            'libtool',
            'config.h',
            'cross',
            'configure',
            'autoreconf',
            'install',
            'install-sh',
        ''])
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 ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

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

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

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

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

    # Matches one year.
    self.year_re = re.compile ('[0-9]+')
# Matches part of a year or copyright holder.
self.continuation_re = re.compile (ranges + '|\s+' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (ranges + '|' + name)

# 1: 'Copyright (C)', etc.
'([Cc]opyright' | ([Cc]opyrights+\([Cc]\))' | ([Cc]opyrights+%s' | ([Cc]opyrights+&copy;' | ([Cc]opyrights+copyright[']) | [@set\s+copyright\[w-]+')

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

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

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

self.use_quilt = False

self.max_year = None

self.separator = '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder

    self.holders[holder] = canon_form

    return 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() + '
'

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\n'
% 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)

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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 + '
')
        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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[This is the first released version of the library GPL. It is
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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.

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

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

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

    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list
    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
stderr=subprocess.STDOUT)
update_out = p.communicate()[0]

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

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

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

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

    The algorithm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
    negatives... We might improve this function to handle more
    complex cases later..."
    
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
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",
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    "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.
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1.36 bmap-tools-native 3.4-r0
1.36.1 Available under license:
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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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1.37 boost 1.64.0-r0
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 */

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

os << "<a href="#files">Files with no recognised license</a>
"<a href="#authors">Files with no recognised copyright holder</a>
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>
if(m_scan_mode)
    os << "<p>The following files were scanned for boost dependencies:<BR>
else
    os << "<p>The following Boost modules were checked:<BR>
std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>";
    ++si;
}
os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>";

// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):

// fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]*#\[[:blank:]*define[[:blank:]*BOOST_VERSION[[:blank:]*([^\d]+)]+$");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100
<< "\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>
    Licence Summary

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><n>";
    ++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)"="/a"></a>" << 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><n></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><n>";
        // Files using this license:
        os << "<P>This license applies to the following " << i->second.files.size() << " files:<P><n></P>
";
        std::set<fs::path, path_less>::const_iterator m, n;
        m = i->second.files.begin();
        n = i->second.files.end();
        while(m != n)
        {
            os << *m << "<BR>";
            ++m;
        }
        os << "</P><BLOCKQUOTE><n>
";
    }
}
os << split_path(m_boost_path, *m) << "<br">
++m;
}
else
{
    os << "<p>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).<p><br>
    os << "<p>This license applies to " << i->second.files.size() << " files (list omitted for brevity).<p><br>
}
++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><br>
"<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>
    ++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><br>
"<p>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:</p><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.
// os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2><br/>
" << "<P>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:<br/>
";
if (!m_converted_to_bsl.empty())
{
  typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
  conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
  int file_num = 1;
  while (i != ie)
  {
    os << "<P>
[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
    << "</tt><br>
<table border="1">
  <tr>
    <td><pre>" << i->second.first << "</pre></td>
    <td><pre>" << i->second.second << "</pre></td>
  </tr>
</table>
";
    ++i;
    ++file_num;
  }
}

// Output list of files that could be moved over to the Boost Software License
// os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2><br/>
" << 
"<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:<br/>
";
  i2 = m_can_migrate_to_bsl.begin();
  j2 = m_can_migrate_to_bsl.end();
  while(i2 != j2)
  {
    os << split_path(m_boost_path, *i2) << "<br>
";
    ++i2;
  }
  os << "</p></BLOCKQUOTE>
";

// Output list of files that can not be moved over to the Boost Software License
// os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2><br/>
" << 
"<P>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:<br/>
";
  i2 = m_cannot_migrate_to_bsl.begin();
  j2 = m_cannot_migrate_to_bsl.end();
  while(i2 != j2)
  {
    os << split_path(m_boost_path, *i2) << "<br>
";
  }
++i2;
}
os << "</p></BLOCKQUOTE>
;
//
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
"<p>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.</p>
<BLOCKQUOTE><P>
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "<br>
));

// output a table of copyright information:
//
os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1"/>
"<tr><td>
std::map<std::string, std::set<fs::path, path_less>> m_author_data;
    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> m_boost_path;
        fi = ad->second.begin();
        efi = ad->second.end();
        while(fi != efi)
        {
            os << split_path(m_boost_path, *fi) << " ";
            ++fi;
        }
        os << "</td></tr>

    }
}

// output file dependency information:
//
os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less> m_copy_paths;
    fi = m_copy_paths.begin();
    efi = m_copy_paths.end();
    if(m_bsl_summary_mode)
bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P><p>
";
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    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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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/fold.hpp>
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>

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

struct state { };

template <int i>
struct t { };

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

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

int main() {

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Open Source Used In IOS XR 700 7.0.0
Adapters for Boost.MPL containers.

- **boost::mpl::integral_c< T, v >**
  - Adapter for IntegralConstants from the Boost.MPL.
  - More...
Adapter for Boost.MPL lists.
<a href="structboost_1_1mpl_1_1list.html#details">More...</a><br />
Adapter for Boost.MPL vectors.  
<a href="structboost_1_1mpl_1_1vector.html#details">More...</a><br />
"integral_c", "structboost_1_1mpl_1_1integral__c.html", null ], 
"list", "structboost_1_1mpl_1_1list.html", null ], 
"vector", "structboost_1_1mpl_1_1vector.html", null ]
}
```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*)(\(c\))?\s*?copyright\s*(\(c\))?\s+\d{4}(\s*-\s*\d{4})?\s+(?P<name>.+?)\s*$', line, re.IGNORECASE)
            if m:
                d = m.groupdict()
                prefix.add(d['prefix'])
                lines.append(i)
                names.append(d['name'].strip())
    if len(prefix) != 1:
        print 'Not found:', filename
        return
    prefix = list(prefix)[0]
    print filename
    new = iter(new_copyright(filename, names))
    with open(filename, 'w') as f:
        for i, line in enumerate(content):
            if i in lines:
                for repl in new:
                    print >>f, prefix + repl
            else:
                print >>f, line,
    pass
```

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

for f in all_files():
    fix_copyright(f)

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

Boost.Geometry (aka GGL, Generic Geometry Library)

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5) Docs -> might take sole copyright
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    <title>Boost Date-Time Library License</title>
    <bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
  </section>
  <para>
    The following is the overall license for the boost date_time library. This notice is found in all source files related to the library.
  </para>
  <para>
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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.

[endsect]
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.
#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if BOOST_HAS_PRAGMA_ONCE
  #pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/mpl.hpp>
#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;

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

#include <boost/container/detail/config_end.hpp>
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);   }
};

#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
#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];
            };

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

#include <cstddef>

namespace boostdef {

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];
            };

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

#include <cstddef>

namespace boostdef {

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];
            };

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

#include <cstddef>

namespace boostdef {

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];
            };

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

#include <cstddef>

namespace boostdef {

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];
            };

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

#include <cstddef>

namespace boostdef {

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_;
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<
    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<br::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 {

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

} //namespace boost {

#include <boost/config.hpp>

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#include <boost/intrusive/detail/config_begin.hpp>
#endif

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/config.hpp>

#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

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

#endif

#include <boost/config.hpp>

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

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

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
    #define 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<

    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;
};

// 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(...);  \
        \
        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;  \
    };  \

//
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));
    };

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

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME)
template<typename Type>
struct TRAITS_NAME
{
    struct BaseMixin
    {
        void FUNC_NAME();
    }; // namespace detail
    // namespace intrusive
    // namespace boost

template<typename Type, class>
struct TRAITS_NAME

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

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djohn -at- cray.com) (See Boost list message of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Mooring (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un5o6n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Ganauge (Gottfried.Ganssauge -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssauge)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- gmail.com)
Herve Bronnimann (hbr -at- poly.edu)
Herv Brnnimann (hbr -at- poly.edu)
Housemarque Oy (Iliari Kuittinen iliari.kuittinen -at- housemarque.fi)
Howard Hinman (hinman -at- twcny.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University ()
Itay Maman (imaman -at- users.sourceforge.net)
Jaakko Jrvi (jjarvi -at- osl.iu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
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-->
Adapters for Boost.MPL containers.
Classes

**struct boost::mpl::integral_c< T, v >**

*Adapter for IntegralConstants from the Boost.MPL.*

More...<br/>

**struct boost::mpl::list< T >**

*Adapter for Boost.MPL lists.*

More...<br/>

**struct boost::mpl::vector< T >**

*Adapter for Boost.MPL vectors.*

More...<br/>

1.38 bridge-utils 1.5-r0

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Version 2, June 1991

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Julian Seward, Cambridge, UK.
jseward@bzip.org
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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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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However, linking a "work that uses the Library" with the Library
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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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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.)

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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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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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Version 2, June 1991

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1.46.1 Available under license :

1.46 ccache 3.3.4-r0
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/* Shared CSS for AsciiDoc xhtml11 and html5 backends */

/* Default font. */
body {
  font-family: Georgia,serif;
}

/* Title font. */
h1, h2, h3, h4, h5, h6,
div.title, caption.title,
thead, p.table.header,
#toc-title,
#author, #revnumber, #revdate, #revremark,
#footer {
  font-family: Arial,Helvetica,sans-serif;
}
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;
}
<table>
<thead>
<tr>
<th>Table Block Styles</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>thead, p.tableblock.header</strong> {</td>
</tr>
<tr>
<td>font-weight: bold;</td>
</tr>
<tr>
<td>color: #527bbd;</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td><strong>p.tableblock</strong> {</td>
</tr>
<tr>
<td>margin-top: 0;</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td><strong>table.tableblock</strong> {</td>
</tr>
<tr>
<td>border-width: 3px;</td>
</tr>
<tr>
<td>border-spacing: 0px;</td>
</tr>
<tr>
<td>border-style: solid;</td>
</tr>
<tr>
<td>border-color: #527bbd;</td>
</tr>
<tr>
<td>border-collapse: collapse;</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td><strong>th.tableblock, td.tableblock</strong> {</td>
</tr>
<tr>
<td>border-width: 1px;</td>
</tr>
<tr>
<td>padding: 4px;</td>
</tr>
<tr>
<td>border-style: solid;</td>
</tr>
<tr>
<td>border-color: #527bbd;</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td><strong>table.tableblock.frame-topbot</strong> {</td>
</tr>
<tr>
<td>border-left-style: hidden;</td>
</tr>
<tr>
<td>border-right-style: hidden;</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td><strong>table.tableblock.frame-sides</strong> {</td>
</tr>
<tr>
<td>border-top-style: hidden;</td>
</tr>
<tr>
<td>border-bottom-style: hidden;</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td><strong>table.tableblock.frame-none</strong> {</td>
</tr>
<tr>
<td>border-style: hidden;</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td><strong>th.tableblock.halign-left, td.tableblock.halign-left</strong> {</td>
</tr>
<tr>
<td>text-align: left;</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td><strong>th.tableblock.halign-center, td.tableblock.halign-center</strong> {</td>
</tr>
<tr>
<td>text-align: center;</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td><strong>th.tableblock.halign-right, td.tableblock.halign-right</strong> {</td>
</tr>
<tr>
<td>text-align: right;</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td><strong>th.tableblock.valign-top, td.tableblock.valign-top</strong> {</td>
</tr>
</tbody>
</table>
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/*
 * 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.

 slashedline
  // Table Of Contents generator
  slashedline

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

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

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

    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, tolevels) {
        var result = new Array;
        var re = new RegExp('[hH]' + ((tolevels+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")).indexOf("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* in place of . so multi-line matches work.
            // Because JavaScript has no s (dotall) regex flag.
            note = spans[i].innerHTML.match(/\[(\s*)\]\s*/)[1];
            spans[i].innerHTML = "[<a id='_footnoteref_" + n + "]" + note + "</a>]";
            spans[i].setAttribute("data-note", note);
        }
        noteholder.innerHTML += "<div class='footnote' id='_footnote_
" + n + "]">" + note + "</div>");
        var id = spans[i].getAttribute("id");
        if (id != null) refs["#"+id] = n;
    }
}
if (n == 0)
    noteholder.parentNode.removeChild(noteholder);
else {
    // Process footnoterefs.
    for (i=0; i<spans.length; i++) {
        if (spans[i].className == "footnoteref") {
            var href = spans[i].getElementsByTagName("a")[0].getAttribute("href");
        }
    }
}
href = href.match(/#.*/)[0]; // Because IE return full URL.
n = refs[href];
spans[i].innerHTML =
"[<a href='#_footnote_" + n +
"' title='View footnote' class='footnote'>" + n + "</a>]";
}
}
}
},
install: function(toclevels) {
var timerId;
function reinstall() {
asciidoc.footnotes();
if (toclevels) {
asciidoc.toc(toclevels);
}
}
function reinstallAndRemoveTimer() {
clearInterval(timerId);
reinstall();
}
timerId = setInterval(reinstall, 500);
if (document.addEventListener)
document.addEventListener("DOMContentLoaded", reinstallAndRemoveTimer, false);
else
window.onload = reinstallAndRemoveTimer;
}
}
asciidoc.install(2);
/*]]>*/
</script>
</head>
<body class="article">
<div id="header">
<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>
<div id="content">
<div class="sect1">

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```

hashtable*.hc

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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.

<table>
<thead>
<tr>
<th>Release</th>
<th>Derived</th>
<th>Year</th>
<th>Owner</th>
<th>GPL-compatible? (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.9.0 thru 1.2</td>
<td>1991-1995</td>
<td>CWI</td>
<td>yes</td>
<td></td>
</tr>
<tr>
<td>1.3 thru 1.5.2</td>
<td>1995-1999</td>
<td>CNRI</td>
<td>yes</td>
<td></td>
</tr>
<tr>
<td>1.6</td>
<td>2000</td>
<td>CNRI</td>
<td>no</td>
<td></td>
</tr>
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<td>1.6</td>
<td>2000</td>
<td>BeOpen.com</td>
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</tr>
<tr>
<td>1.6.1</td>
<td>2001</td>
<td>CNRI</td>
<td>yes (2)</td>
<td></td>
</tr>
<tr>
<td>2.1</td>
<td>2.0+1.6.1</td>
<td>2001</td>
<td>PSF no</td>
<td></td>
</tr>
<tr>
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<td>2001</td>
<td>PSF yes</td>
<td></td>
</tr>
<tr>
<td>2.1.1</td>
<td>2.1+2.0.1</td>
<td>2001</td>
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</tr>
<tr>
<td>2.2</td>
<td>2.1.1</td>
<td>2001</td>
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<tr>
<td>2.1.2</td>
<td>2.1.1</td>
<td>2002</td>
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<tr>
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<td>2002</td>
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<td>2.2.1</td>
<td>2002</td>
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<tr>
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<td>2003</td>
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</tr>
<tr>
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<td>2002-2003</td>
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<tr>
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<td>2.5.1</td>
<td>2008</td>
<td>PSF yes</td>
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<tr>
<td>2.5.3</td>
<td>2.5.2</td>
<td>2008</td>
<td>PSF yes</td>
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<td>PSF yes</td>
<td></td>
</tr>
<tr>
<td>2.6.1</td>
<td>2.6</td>
<td>2008</td>
<td>PSF yes</td>
<td></td>
</tr>
</tbody>
</table>

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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murmurhashneutral2.[hc]

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Jean-loup Gailly        Mark Adler
jlooup@gzip.org          madler@alumni.caltech.edu
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1.48 chkconfig 1.3.58-r0

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1.49 chrpath 0.16-r0

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*/

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

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jloup@gzip.org          madler@alumni.caltech.edu
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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

hello world
merhaba dnya
4-Byte sequences:
Perch (Fish) Elevator!

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* Alexander Neundorf <neundorf@kde.org>
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1.56 cpufrequtils 008-r0
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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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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

----------

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

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
=20
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

On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i 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 library to dictact to application writes what license they should be using.
thus LGPL-2.1 enters to fill this void.

=2Dmike

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
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> > directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > it was enough to just get it consistent and documented as to what
> > it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> > the original license (before moving to sourceforge -- aka, 2.7) was
> > not
> > GPL-2 ... it was a modified artistic license ... i 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 isn't 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
On Monday 28 January 2008, Nalin Dahyabhai wrote:

> > 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 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
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 I1 oweX-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: <1b1b3fd8071010010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CDD74E235CEF44F38@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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=============

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1.64 dbus-glib-native 0.108-r0

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1.68 dev86-native 0.16.20-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>

<refsection><info><title>Description</title></info>
<para>If the value of <parameter>generate.legalnotice.link</parameter> is non-zero, the stylesheet:

<itemizedlist>
<li><para>writes the contents of <tag>legalnotice</tag> to a separate
<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>

</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>
  <listitem>
    <para>If a filename is given by the <tag class="xmlpi">dbhtml filename</tag> processing instruction, that filename is used.</para>
  </listitem>
  <listitem>
    <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>
  </listitem>
  <listitem>
    <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>
  </listitem>
</orderedlist>

</para>

</refsection>
<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 the parameter `html.head.legalnotice.link.types` 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 is non-zero, then the stylesheet generates (in the `literal` header 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:

- A `<tag class="attribute">rel</tag>` attribute whose value is derived from the value of the parameter `html.head.legalnotice.link.types` parameter.
- An `<tag class="attribute">href</tag>` attribute whose value is set to the URL of the file containing the `tag` `legalnotice` tag.
- A `<tag class="attribute">title</tag>` attribute whose value is set to the title of the corresponding `tag` `legalnotice` (or a title programmatically determined by the stylesheet).

For example:

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

In an ideal world, the default value of the parameter `html.head.legalnotice.link.types` would probably be `<literal>license</literal>`, since the content of the DocBook `tag` `legalnotice` tag is typically license information, not copyright information. However, the default value is `<literal>copyright</literal>` for pragmatic reasons: because that's among the set of recognized link types listed in `link xlink:href="http://www.w3.org/TR/html401/types.html#type-links">Section 6.12 of the HTML 4.01 specification</link>`, and because certain
browsers and browser extensions are preconfigured to recognize that value.</para>
</refsection>
</refentry>
<refsection>
<refentry xmlns="http://docbook.org/ns/docbook"
    xmlns:xlink="http://www.w3.org/1999/xlink"
    xmlns:xsi="http://www.w3.org/2001/XInclude"
    xmlns:src="http://nwalsh.com/xmlns/litprog/fragment"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
    version="5.0" xml:id="man.copyright.section.enabled">
    <refmeta>
        <refentrytitle>man.copyright.section.enabled</refentrytitle>
        <refmiscinfo class="other" otherclass="datatype">boolean</refmiscinfo>
    </refmeta>
    <refnamediv>
        <refname>man.copyright.section.enabled</refname>
        <refpurpose>Display auto-generated COPYRIGHT section?</refpurpose>
    </refnamediv>
    <refsynopsisdiv>
        <src:fragment xml:id="man.copyright.section.enabled.frag">
            <xsl:param name="man.copyright.section.enabled">1</xsl:param>
        </src:fragment>
    </refsynopsisdiv>
    <refsection>
        <info>
            <title>Description</title>
        </info>
        <para>
            If the value of <parameter>man.copyright.section.enabled</parameter> is non-zero
            (the default), then a <literal>COPYRIGHT</literal> section is
            generated near the end of each man page. The output of the
            <literal>COPYRIGHT</literal> section is assembled from any
            <tag>copyright</tag> and <tag>legalnotice</tag> metadata found in
            the contents of the child <tag>info</tag> or
            <tag>refentryinfo</tag> (if any) of the <tag>refentry</tag>
            itself, or from any <tag>copyright</tag> and
            <tag>legalnotice</tag> metadata that may appear in <tag>info</tag>
            contents of any ancestors of the <tag>refentry</tag>.
        </para>
        <para>
            If the value of <parameter>man.copyright.section.enabled</parameter> is zero, the
            auto-generated <literal>COPYRIGHT</literal> section is
            suppressed.
        </para>
        <para>
            Set the value of <parameter>man.copyright.section.enabled</parameter> to zero if
            you want to have a manually created <literal>COPYRIGHT</literal>
            section in your source, and you want it to appear in output
            instead of the auto-generated <literal>COPYRIGHT</literal>
            section.
        </para>
    </refsection>
</refentry>
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- \texttt{title} attribute whose value is set to the title of the corresponding \texttt{legalnotice} (or a title programatically determined by the stylesheet)

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\begin{verbatim}
<screen> <link rel="license" href="ln-id2524073.html" title="Legal Notice"> </screen>
</para>
\end{verbatim}
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</para>
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http://www.w3.org/2002/06/sacjava-1.3.zip

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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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=====

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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 qasm 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 
 */
* from the sample implementation.

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David Gibson <david@gibson.dropbear.id.au>  
(principal original author of dtc and libfdt)  
2 November 2007

1.87 dtc-native 1.4.4-r0
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1.88 e2fsprogs 1.43.5-r0

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

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# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \ 
`echo $(my_dir) | sed -e 's;lib/;;'" $(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) 
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDLOAD)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
/*

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*/
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell              2005
+ 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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written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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

That's all there is to it!

#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
# all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$[BSD_LIB]

$[BSD_LIB]: $(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-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$[RM] -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$[RM] -rf pic
$[RM] -f $(BSD_LIB)
$[RM] -f $[BSD_LIB]

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/

Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
- - Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
+ Copyright (C) Jeremy Allison 2000-2006
+ Copyright (C) Paul `Rusty' Russell 2000

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003
It is part of the main e2fsprogs distribution, which can be found at:

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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1.90 eject 2.1.5-r1

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

It is now maintained by Frank Lichtenheld <djpig@debian.org>.

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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
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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.

If distribution of executable or object code is made by offering
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1.101 ffmpeg 3.3.3-r0
1.101.1 Available under license:

# License

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or later (LGPL v2.1+). Read the file `COPYING.LGPLv2.1` for details. Some other
files have MIT/X11/BSD-style licenses. In combination the LGPL v2.1+ applies to
FFmpeg.

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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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.

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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.

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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.)

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
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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.

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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.

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

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

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

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more 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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1.104 findutils 4.6.0-r0

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1.108 font-util 1.3.1-r0

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1.109 fontconfig 2.12.4-r0

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1.110 fontsproto 2.1.3-r0

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# builds/unix/pkg.m4
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docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
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
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pconfutil.c
src/pcf/pconfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infheaders.c
src/gzip/infheaders.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/apinames.c
src/tools/frandom/frandom.c
#
# EOF

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http://aws.amazon.com/freertos 1 tab 4 spaces! / @file FreeRTOSSTMTrace.h

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 <pre>

MODIFICATION HISTORY: Ver Who Date Changes ----- ---- -------- 1.00a sdm
07/15/16 Initial version </pre>

FILES:
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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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http://www.FreeRTOS.org http://aws.amazon.com/freertos 1 tab 4 spaces! / 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). /

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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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Stream buffers are used to send a continuous stream of data from one task or interrupt to another. Their implementation is light weight, making them particularly suited for interrupt to task and core to core communication scenarios. NOTE: Uniquely among FreeRTOS objects, the stream buffer implementation (so also the message buffer implementation, as message buffers are built on top of stream buffers) assumes there is only one task or interrupt that will write to the buffer (the writer), and only one task or interrupt that will read from the buffer (the reader). It is safe for the writer and reader to be different tasks.
or interrupts, but, unlike other FreeRTOS objects, it is not safe to have multiple different writers or multiple different readers. If there are to be multiple different writers then the application writer must place each call to a writing API function (such as xStreamBufferSend()) inside a critical section and set the send block time to 0. Likewise, if there are to be multiple different readers then the application writer must place each call to a reading API function (such as xStreamBufferRead()) inside a critical section and set the receive block time to 0. 

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

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Implementation of functions defined in portable.h for the MicroBlaze port.

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

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Scheduler includes. /

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/GCC/MicroBlazeV9/port_exceptions.c
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http://www.FreeRTOS.org  
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tab 4 spaces! /
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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FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/MemMang/heap_2.c

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Implementation of pvPortMalloc() and vPortFree() that relies on the compilers
own malloc() and free() implementations. This file can only be used if the
linker is configured to to generate a heap memory area. See heap_1.c, heap_2.c
and heap_4.c for alternative implementations, and the memory management pages of
http://www.FreeRTOS.org for more information. /

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/MemMang/heap_3.c
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sample implementation of pvPortMalloc() and vPortFree() that combines
(coalescences) adjacent memory blocks as they are freed, and in so doing limits
memory fragmentation. See heap_1.c, heap_2.c and heap_3.c for alternative
implementations, and the memory management pages of http://www.FreeRTOS.org for
more information. /
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/XilinxProcessorIPLib/drivers/v_sdirxss/data/xv_sdirxss_header.h
- embeddedsw/XilinxProcessorIPLib/drivers/v_sdirxss/examples/kcu116_xuhdsdi_example/fzetta_fmc/fzetta_fmc_ctrlr.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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FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/compiler.h

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

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ADvised OF THE POSSIBILITY OF SUCH DAMAGE. / @file config.h @brief Generated
configuration settings for libmetal. /

FILES:
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FILES:
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embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/linux/shmem.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/linux/spinlock.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/linux/threads.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/linux/zynq/device.c
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embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/zephyr/main.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/version.c
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for libmetal. /

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OF SUCH DAMAGE. / @file io.h @brief I/O access primitives for libmetal. /

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for libmetal. /

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 ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / @file log.h @brief Logging support
for libmetal. /

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

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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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FreeRTOS device operations. /

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

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FreeRTOS libmetal shared memory handling. /

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freertos libmetal sleep handling. /

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embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/freertos/zynq7/sys.c

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@brief freertos zynqmp_a53 system primitives for libmetal. /

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@brief machine specific system primitives implementation. /

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@brief freertos zynqmp_r5 system primitives for libmetal. /

FILES:
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generic libmetal memory allocation definitions. /

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generic libmetal cache handling. /

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Generic libmetal device operations. /

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Generic mutex primitives for libmetal. /

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Generic libmetal sleep handling. /

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/ @file generic/sys.h @brief Generic system primitives for libmetal. /

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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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mutex primitives for libmetal. /

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libmetal shared memory handling. /

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utility functions. /

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variable handling. /

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@file zephyr/device.c @brief Zephyr libmetal device definitions. /

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FILES:
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collection of code for the lwIP TCP/IP stack. The Swedish Institute of Computer Science
and Adam Dunkels are specifically granted permission to redistribute this source
code. Author: Leon Woestenberg <leon.woestenberg@gmx.net> This is a DHCP client
for the lwIP TCP/IP stack. It aims to conform with RFC 2131 and RFC 2132. TODO:
- Support for interfaces other than Ethernet (SLIP, PPP, ...) Please coordinate
changes and requests with Leon Woestenberg <leon.woestenberg@gmx.net>
Integration with your code: In lwip/dhcp.h define DHCP_COARSE_TIMER_SECS
(recommended 60 which is a minute) define DHCP_FINE_TIMER_MSECS (recommended 500
which equals TCP coarse timer) Then have your application call dhcp_coarse_tmr()
and dhcp_fine_tmr() on the defined intervals. dhcp_start(struct netif netif);
starts a DHCP client instance which configures the interface by obtaining an IP
address lease and maintaining it. Use dhcp_release(netif) to end the lease and
use dhcp_stop(netif) to remove the DHCP client. /

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

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@file DNS - host name to IP address resolver. This file implements a DNS host
name to IP address resolver. Port to lwIP from uIP by Jim Pettinato April 2007
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DNS.C The lwIP DNS resolver functions are used to lookup a host name and map it
to a numerical IP address. It maintains a list of resolved hostnames that can be
queried with the dns_lookup() function. New hostnames can be resolved using the
dns_query() function. The lwIP version of the resolver also adds a non-blocking
version of gethostbyname() that will work with a raw API application. This
function checks for an IP address string first and converts it if it is valid.
gethostbyname() then does a dns_lookup() to see if the name is already in the
Table. If so, the IP is returned. If not, a query is issued and the function
returns with a ERR_INPROGRESS status. The app using the dns client must then go
into a waiting state. Once a hostname has been resolved (or found to be non-
existent), the resolver code calls a specified callback function (which must be
implemented by the module that uses the resolver). / RFC 1035 - Domain names -
implementation and specification RFC 2181 - Clarifications to the DNS
Specification

@todo: define good default values (rfc compliance) / @todo: improve answer
parsing, more checkings... / @todo: check RFC1035 - 7.3. Processing responses /
Includes

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

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

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@file Dynamic memory manager
This is a lightweight replacement for the standard C library malloc(). If you want to use the standard C library malloc() instead, define MEM_LIBC_MALLOC to 1 in your lwipopts.h To let mem_malloc() use pools (prevents fragmentation and is much faster than a heap but might waste some memory), define MEM_USE_POOLS to 1, define MEM_USE_CUSTOM_POOLS to 1 and create a file "lwippools.h" that includes a list of pools like this (more pools can be added between _START and _END):
Define three pools with sizes 256, 512, and 1512 bytes LWIP_MALLOC_MEMPOOL_START LWIP_MALLOC_MEMPOOL(20, 256)
LWIP_MALLOC_MEMPOOL(10, 512) LWIP_MALLOC_MEMPOOL(5, 1512)
LWIP_MALLOC_MEMPOOL_END
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FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/mem.c

__________________________
Dynamic pool memory manager lwIP has dedicated pools for many structures (netconn, protocol control blocks, packet buffers, ...). All these pools are managed here. / 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 Packet buffer management

Packets are built from the pbuf data structure. It supports dynamic memory allocation
for packet contents or can reference externally managed packet contents both in RAM and
ROM. Quick allocation for incoming packets is provided through pools with fixed sized
pbufs. A packet may span over multiple pbufs, chained as a singly linked list. This is called a
"pbuf chain". Multiple packets may be queued, also using this singly linked list. This is called a
"packet queue". So, a packet queue consists of one or more pbuf chains, each of which consist of one or more
pbufs. CURRENTLY, PACKET QUEUES ARE NOT SUPPORTED!!! Use helper structs to queue multiple
packets. The differences between a pbuf chain and a packet queue are very precise but subtle.
The last pbuf of a packet has a ->tot_len field that equals the ->len field. It can be found by traversing the list. If the last
pbuf of a packet has a ->next field other than NULL, more packets are on the queue. Therefore, looping through
a pbuf of a single packet, has an loop end condition (tot_len p->len), NOT (next
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FILES:
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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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FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/timers.c
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FILES:
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. /

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

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embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/ipv4/icmp.c
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----------------------------------------------------------------------------/
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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv4/ip4.c

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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv4/ip4_frag.c

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

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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/contrib/ports/xilinx/sys_arch.c

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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/contrib/ports/xilinx/netif/xemacpsif_dma.c
embeddedsw/ThirdParty/sw_services/lwip202/src/contrib/ports/xilinx/netif/xemacpsif_hw.c
embeddedsw/ThirdParty/sw_services/lwip202/src/contrib/ports/xilinx/netif/xemacpsif_hw.h
embeddedsw/ThirdParty/sw_services/lwip202/src/contrib/ports/xilinx/netif/xpqueue.c
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/src/xv_hdmitxss_log.c

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This file is part of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se>

COREFILES, CORE4FILES: The minimum set of files needed for lwIP.

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/Filelists.mk

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@file Sequential API External module @defgroup netconn Netconn API @ingroup sequential_api Thread-safe, to be called from non-TCPIP threads only. TX/RX handling based on @ref netbuf (containing @ref pbuf) to avoid copying data around. @defgroup netconn_common Common functions @ingroup netconn For use with TCP and UDP @defgroup netconn_tcp TCP only @ingroup netconn TCP only functions @defgroup netconn_udp UDP only @ingroup netconn UDP only functions / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
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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 socket / Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This file is part of the lwIP TCP/IP stack. Author: Simon Goldschmidt /

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/api/netbuf.c
-------------

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@file Network Interface Sequential API module @defgroup netfapi NETIF API @ingroup sequential_api Thread-safe functions to be called from non-TCPIP threads @defgroup netfapi_netif NETIF related @ingroup netfapi To be called from non-TCPIP threads / Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright
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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/api/netifapi.c

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@file Sockets BSD-Like API module @defgroup socket Socket API @ingroup sequential_api BSD-style socket API\nThread-safe, to be called from non-TCPIP threads only.\nCan be activated by defining @ref LWIP_SOCKET to 1.\nHeader is in posix/sys/socket.h / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
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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> /

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/api/sockets.c

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<adam@sics.se> /

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/httpd/fs.c
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/httpd/fsdata.h
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/include/lwip/apps/fs.h

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@defgroup httpd HTTP server @ingroup apps This httpd supports for a rudimentary server-side-include facility which will replace tags of the form <!--tag in any file whose extension is .shtml, .shtm or .ssi with strings provided by an include handler whose pointer is provided to the module via function http_set_ssi_handler(). Additionally, a simple common gateway interface (CGI) handling mechanism has been added to allow clients to hook functions to particular request URIs. To enable SSI support, define label LWIP_HTTPD_SSI in lwipopts.h. To enable CGI support, define label LWIP_HTTPD_CGI in lwipopts.h. By default, the server assumes that HTTP headers are already present in each file stored in the file system. By defining LWIP_HTTPD_DYNAMIC_HEADERS in lwipopts.h, this behavior can be changed such that the server inserts the headers automatically based on the extension of the file being served. If this mode is used, be careful to ensure that the file system image used does not already contain the header information. File system images without headers can be created using the makeshfile 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 makeshdata complains about an unknown extension, make sure to add it (and its doctype) to the
'g_psHTTPHeaders' list.

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/httpd/httpd.c
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@file lwIP iPerf server implementation / @defgroup iperf Iperf server @ingroup apps
apps This is a simple performance measuring server to check your bandwidth using
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IPv4 TCP server only. @todo: implement UDP mode and IPv6 / Copyright (c) 2014
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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/lwiperf/lwiperf.c
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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
(UN)SUBSCRIBE message (protocol has support for multiple topics) - Add support
for legacy MQTT protocol version Please coordinate changes and requests with
Erik Andersson Erik Andersson <erian747@gmail.com> /

FILES:
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
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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/snmp/snmp_asn1.c
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<lwip@eliasoenal.com> /

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interface in the netif_list. All routes are considered to be up (U). Loading additional MIBs MIBs can only be added in compile-time, not in run-time. 1 Building the Agent First of all you'll need to add the following define to your local lwipopts.h: `define LWIP_SNMP 1 and add the source files your makefile. Note you'll might need to adapt you network driver to update the mib2 variables for your interface. 2 Running the Agent The following function calls must be made in your program to actually get the SNMP agent running. Before starting the agent you should supply pointers for sysContact, sysLocation, and snmpEnableAuthenTraps. You can do this by calling - snmp_mib2_set_syscontact() - snmp_mib2_set_syslocation() - snmp_set_auth_traps_enabled() You can register a callback which is called on successful write access: snmp_set_write_callback(). Additionally you may want to set - snmp_mib2_set_sysdescr() - snmp_set_device_enterprise_oid() - snmp_mib2_set_sysname() Also before starting the agent you need to setup one or more trap destinations using these calls: - snmp_trap_dst_enable() - snmp_trap_dst_ip_set() If you need more than MIB2, set the MIBs you want to use by snmp_set_mibs(). Finally, enable the agent by calling snmp_init() @defgroup snmp Core @ingroup snmp @defgroup snmp_traps Traps @ingroup snmp /

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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/snmp/snmp_traps.c

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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/include/lwip/apps/snmpv3.h

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FILES:
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FILES:
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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
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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: \define LWIP_CHKSUM your_checksumRoutine Or you can select from the implementations below by defining LWIP_CHKSUM_ALGORITHM to 1, 2 or 3. / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights
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<adam@sics.se> /

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

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@file Common IPv4 and IPv6 code @defgroup ip IP @ingroup callbackstyle_api
@defgroup ip4 IPv4 @ingroup ip @defgroup ip6 IPv6 @ingroup ip @defgroup ipaddr
IP address handling @ingroup infrastructure @defgroup ip4addr IPv4 only @ingroup
ipaddr @defgroup ip6addr IPv6 only @ingroup ipaddr / Copyright (c) 2001-2004
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@file Dynamic memory manager This is a lightweight replacement for the standard
C library malloc(). If you want to use the standard C library malloc() instead,
define MEM_LIBC_MALLOC to 1 in your lwipopts.h To let mem_malloc() use pools
(prevents fragmentation and is much faster than a heap but might waste some
memory), define MEM_USE_POOLS to 1, define MEMP_USE_CUSTOM_POOLS to 1 and create
a file "lwippools.h" that includes a list of pools like this (more pools can be
added between _START and _END): Define three pools with sizes 256, 512, and 1512
bytes LWIP_MALLOC_MEMPOOL_START LWIP_MALLOC_MEMPOOL(20, 256)
LWIP_MALLOC_MEMPOOL(10, 512) LWIP_MALLOC_MEMPOOL(5, 1512)
LWIP_MALLOC_MEMPOOL_END / Copyright (c) 2001-2004 Swedish Institute of Computer
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stack. Author: Adam Dunkels <adam@sics.se> Simon Goldschmidt /

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ip.c
@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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<adam@sics.se> /

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

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@file Implementation of raw protocol PCBs for low-level handling of different
types of protocols besides (or overriding) those already available in lwIP."
See also @ref raw_raw @defgroup raw_raw RAW @ingroup callbackstyle_api
Implementation of raw protocol PCBs for low-level handling of different types of
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@see @ref raw_api / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All
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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 @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
@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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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/tcp.c

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@file User Datagram Protocol module
The code for the User Datagram Protocol UDP & UDPLite (RFC 3828).
See also @ref udp_raw @defgroup udp_raw UDP @ingroup callbaskyle_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 OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. Author: Dominik Spies <kontakt@dspies.de> /

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv4/autoip.c
--------------------------------------------------------------------------------
POSSIBLE NOTICE(S): [BSD] [BSD-3] [BSD-2] [Google]
@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 / Copyright (c) 2001-2004 Leon Woestenberg <leon.woestenberg@gmx.net> Copyright (c) 2001-2004 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. The Swedish Institute of Computer Science and Adam Dunkels are specifically granted permission to redistribute this source code. Author: Leon Woestenberg <leon.woestenberg@gmx.net> / FILES: embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv4/dhcp.c

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code. Note 1) Although the rfc requires V1 AND V2 capability we will only
support v2 since now V1 is very old (August 1989) V1 can be added if required a
debug print and statistic have been implemented to show this up. Note 2) A query
for a specific group address (as opposed to ALLHOSTS) has now been implemented
as I am unsure if it is required a debug print and statistic have been
implemented to show this up. Note 3) The router alert rfc 2113 is implemented in
outgoing packets but not checked rigorously incoming Steve Reynolds RFC 988 -
Host extensions for IP multicasting - V0 RFC 1054 - Host extensions for IP
multicasting RFC 1112 - Host extensions for IP multicasting - V1 RFC 2236 -
Internet Group Management Protocol, Version 2 - V2 <- this code is based on this
RFC (it's the "de facto" standard) RFC 3376 - Internet Group Management
Version 3... - V3+ RFC 2113 - IP Router Alert Option
--------------------------------------------------------------------------/
Includes
--------------------------------------------------------------------------/
FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv4/igmp.c
--------------------------------------------------------------------------/

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@file Ethernet output for IPv6. Uses ND tables for link-layer addressing. /
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FILES:
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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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv6/icmp6.c
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/include/lwip/icmp6.h

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FILES:
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<delamer@inicotech.com> Functions for handling IPv6 addresses. Please coordinate changes and requests with Ivan Delamer <delamer@inicotech.com> /

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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv6/ip6_frag.c
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/include/lwip/ip6_frag.h
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@file Multicast listener discovery @defgroup mld6 MLD6 @ingroup ip6 Multicast
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stack. Author: Ivan Delamer <delamer@inicotech.com> Please coordinate changes
and requests with Ivan Delamer <delamer@inicotech.com> / Based on igmp.c
implementation of igmp v2 protocol /

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv6/mld6.c

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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv6/nd6.c
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/include/lwip/nd6.h
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/include/lwip/priv/nd6_priv.h
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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/include/lwip/ip_addr.h

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1) For NO_SYS0, an RX thread can be used which blocks on sio_read() until data is received.
2) In
your main loop, call slipif_poll() to check for new RX bytes, completed packets are fed into netif->input().\n3) 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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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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FILES:
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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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------ -------- X.XX XX YY/MM/DD 1.00 RHe 16/06/20 Initial release. </pre>

FILES:
embeddedsw/XilinxProcessorILib/drivers/dprxss/examples/src/dats_dp14/ti_lmk03318.c
embeddedsw/XilinxProcessorILib/drivers/dptxss/examples/src/dats_dp14/ti_lmk03318.c

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This file contains the USB Chapter 9 related functions. 

**Modification History:**
- **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.

**Include Files:**
- `embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_cp9.c`

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FILES:
- `embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_cp9.c`

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FILEs:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_cp9.h

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MODIFICATION HISTORY:

Open Source Used In IOS XR 700 7.0.0
Ver Who Date Changes ----- ----- 1.00a hv 5/31/07 First release 3.00a hv 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 hv 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).

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

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@note None. <pre> MODIFICATION HISTORY: Ver Who Date Changes ----- ----
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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ALL TIMES. @file xusb_mouse.c This file contains an example for USB Mouse. @note
- The example is tested on ML403 and ML507 evaluation boards. The push buttons
SW3,SW4,SW5 and SW7 on the ML403 evaluation board are used in the example for
the 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>
FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_mouse.c
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FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_mouse.h
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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 Invalidate. 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> FILES: embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_storage_polled_mode.c

POSSIBLE NOTICE(S): [EPL-1.0]
@file xusb_types.h

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

@note None.

<pre>
MODIFICATION HISTORY:
Ver Who Date Changes
----- 1.00a hvm 2/22/07 First release 4.00a hvm 12/20/10 Updated with the Audio device definitions.
</pre>

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

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THIS COPYRIGHT NOTICE AND DISCLAIMER MUST BE RETAINED AS PART OF THIS FILE AT ALL TIMES. @file xusb.c @addtogroup usb_v5_2 @{ The XUsb driver. Functions in this file are the minimum required functions for this driver. See xusb.h for a detailed description of the driver. @note None. <pre> MODIFICATION HISTORY: Ver Who Date Changes ----- ---- 1.00a hvm 2/22/07 First release 2.00a hvm 10/22/08 Added DMA APIs. 3.00a hvm 12/3/09 Added XUsb_ReadErrorCounters API to return USB error counters data. Updated to use HAL processor APIs. XUsb_mReadReg is renamed to XUsb_ReadReg and XUsb_mWriteReg is renamed to XUsb_WriteReg. 3.02a hvm 7/15/10 Added Device ID initialization in XUsb_CfgInitialize function (CR555996). 4.00a hvm 10/21/10 Added ULPI PHY Read/Write APIs. Added DMA handler initialization in XUsb_CfgInitialize function 4.03a bss 06/20/10 Added SIE Reset API (XUsb_SieReset) to reset the SIE state machine (CR 660602) 5.1 sk 11/10/15 Used UINTPTR instead of u32 for Baseaddress CR 867425. Changed the prototype of XUsb_CfgInitialize API. 5.2 MNK 29/03/15 Added 64bit changes for ZYNQMP. </pre> 

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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 The device driver enables higher layer software (e.g., an application) to communicate to the USB device. Apart from transmission and reception of USB frames the driver also handles the configuration of the device. A single device driver can support multiple USB devices. XUsb_CfgInitialize() API is used to initialize the USB device. The user needs to first call the XUsb_LookupConfig() API which returns the Configuration structure pointer which is passed as a parameter to the XUsb_CfgInitialize() API. - Configuration of the DEVICE endpoints: The endpoints of the device need to be configured using the XUsb_EpConfigure() function call. After configuration is complete, the endpoints need to be initialized using the XUsb_EpInitializeAll() function call. <b> Initialization & Configuration</b>
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: 

Chapter 9 files are moved to examples directory. 
Removed support for static interrupt handlers from the MDD file. 
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. 

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_EpDataRecvc function to ensure that the buffer ready bit setup is now made only during non-DMA case. CR570776. 3.02a hvm 8/16/10 Updated the examples with the little endian support. 4.00a hvm 10/21/10 Added new API XUsb_DmaIntrSetHandler for setting up DMA handler. Updated the XUsb_IntrHandler function to call the DMA handler to handle DMA events. Removed DmaDone and DmaError variables from the XUsb structure. Added two new APIs to provide access to the new ULPI PHY register. 4.01a hvm 8/23/11 Added new bit definitions for isochronous transfer bits in endpoint configuration register. Added a new API for setting these bits for a given endpoint. These bits are available only in the newer versions of the AXI USB IP. Check the IP datasheet for more details. 4.02a bss 3/04/12 Modified XCOMPONENT_IS_READY to XIL_COMPONENT_IS_READY CR 650877 4.03a bss 06/20/10 Added SIE Reset API to reset (XUsb_SieReset) the SIE state machine in xusb.c and SIE Reset Mask in xusb_l.h for CR 660602 4.04a bss 10/22/13 Added macros for HSIC PHY registers in xusb_l.h. 5.0 adk 19/12/13 Updated as per the New Tcl API's 5.1 sk 11/10/15 Used UINTPTR instead of u32 for Baseaddress CR 867425. Changed the prototype of XUsb_CfgInitialize API. 5.2 MNK 29/03/15 Added 64bit changes for ZYNQMP. ms 03/17/17 Modified text file in examples folder for doxygen generation. 

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

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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:
embeddedsw/XilinxProcessorIPLib/drivers/usb/src/xusb_endpoint.c

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THIS COPYRIGHT NOTICE AND DISCLAIMER MUST BE RETAINED AS PART OF THIS FILE AT ALL TIMES. @file xusb_g.c @addtogroup usb_v5_2 @{ This file contains a configuration table that specifies the configuration of the USB devices in the system. @note None. <pre> MODIFICATION HISTORY: Ver Who Date Changes ----- ---- -------- 1.00a hvm 2/22/07 First release 2.00a hvm 12/2/08 Updated the configuration structure with the INCLUDE_DMA option. </pre> Include Files / FILES:

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/src/xusb_g.c

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ALL TIMES. @file xusb_intr.c @addtogroup usb_v5_2 @{ This file contains the
functions that are related to interrupt processing for the USB device. <pre>
MODIFICATION HISTORY: Ver Who Date Changes ------ ----- 1.00a hvm 2/22/07 First
release. 2.00a hvm 12/2/08 Updated the interrupt handler for handling the new
DMA bits defined in the interrupt status register. 3.00a hvm 12/3/09 Updated to
use HAL processor APIs. Removed _m from the Added the interrupt handling for
the error interrupts. Added new API XUsb_ErrIntrSetHandler for setting up error
handler. 3.01a hvm 5/20/10 Updated with fix for CR561171. The interrupt handler
is updated to call the error handler callback function during error interrupts.
4.00a hvm 9/01/10 Added new API XUsb_DmaIntrSetHandler for setting up DMA
handler. Updated the XUsb_IntrHandler function to call the DMA handler to handle
DMA events. Removed the DmaDone and DmaError variable usage from the
XUsb_IntrHandler function. Added interrupt handling for ULPI PHY interrupts.
4.02a bss 3/04/12 Modified XCOMPONENT_IS_READY to XIL_COMPONENT_IS_READY CR
650877 </pre> / Include Files /
FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/src/xusb_intr.c
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THIS COPYRIGHT NOTICE AND DISCLAIMER MUST BE RETAINED AS PART OF THIS FILE AT ALL TIMES. @file xusb_l.h @addtogroup usb_v5_2 @{ This header file contains identifiers and low-level driver function prototypes (or macros) that can be used to access the USB device. High-level driver function prototypes are defined in xusb.h. <pre> MODIFICATION HISTORY: Ver Who Date Changes ----- ---- -------- 1.00a hvm 2/22/07 First release 2.00a hvm 12/2/08 Updated the register offset values as per the new USB device datasheet. Added new bitmasks related to DMA operation as defined in the datasheet. 3.00a hvm 10/28/09 Updated the new USB error register related constants 3.00a hvm 11/18/09 Updated to use HAL processor APIs. XUsb_mReadReg is renamed to XUsb_ReadReg and XUsb_mWriteReg is renamed to XUsb_WriteReg. Updated the new USB error register related constants. 4.00a hvm 10/21/10 Updated the ULPI PHY and interrupt register related constants. 4.01a hvm 08/23/11 Updated with High bandwidth Isochronous bit definitions 4.03a bss 06/20/10 Added SIE Reset Mask (CR 660602) 4.04a bss 10/22/13 Added macros for HSIC PHY registers. </pre>

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

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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:
embeddedsw/XilinxProcessorIPLib/drivers/usb/src/xusb_sinit.c
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FILES:
- embeddedsw/XilinxProcessorIPLib/drivers/i2stx/data/i2stx.mdd
- embeddedsw/XilinxProcessorIPLib/drivers/i2stx/data/i2stx.tcl
- embeddedsw/XilinxProcessorIPLib/drivers/sdiaud/data/sdiaud.tcl
- embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/data/v_hdmirxss.mdd
- embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/data/v_hdmirxss.tcl
- embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/data/v_hdmitxss.mdd
- embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/data/v_hdmitxss.tcl

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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

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
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/XilinxProcessorIPIlib/drivers/v_hdmirxss/examples/xhdmi_example/sha256.h
embeddedsw/XilinxProcessorIPIlib/drivers/v_hdmitxss/examples/xhdmi_example/sha256.h

@file idt_8t49n24x.c  @addtogroup IDT_8T49N24x @{ <pre> Copyright (c) 2016 Adeas
B.V. All rights reserved. MODIFICATION HISTORY: Ver Who Date Changes ----
------ -------- 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/XilinxProcessorIPIlib/drivers/v_hdmirxss/examples/xhdmi_example/idt_8t49n24x.c
embeddedsw/XilinxProcessorIPIlib/drivers/v_hdmitxss/examples/xhdmi_example/idt_8t49n24x.c

@file idt_8t49n24x.h  @addtogroup IDT_8T49N24x @{ <pre> Copyright (c) 2016 Adeas
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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

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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ALL TIMES. \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_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. /
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FILES:
embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/freertos/zynqmp_r5/zynqmp_amp_demo/shmem_latency_demod.c
embeddedsw/lib/sw_apps/libmetal_echo_demo/src/system/generic/zynqmp_r5/zynqmp_amp_demo/shmem_latency_demod.c
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/shmem_throughput_demo_task.c This is the remote side of the shared memory throughput demo. This demo does the following steps:
1. Get the shared memory device libmetal I/O region.
2. Get TTC timer device 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 conter 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:
- 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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ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / FILE NAME platform_info.c
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 echoed_test/src/machine/zynqmp_r5/rsc_table.c
embeddedsw/lib/sw_apps/openamp echoed_test/src/machine/zynqmp_r5/rsc_table.h
embeddedsw/lib/sw_apps/openamp_matrix_multiply/src/machine/zynq7/rsc_table.c
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embeddedsw/lib/sw_apps/openamp_rpc_demo/src/machine/zynqmp_r5/rsc_table.h

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This is a sample demonstration application that showcases usage of rpmsg. This application is meant to run on the remote CPU running FreeRTOS code. It echoes back data that was sent to it by the master core. The application calls init_system which defines a shared memory region in MPU settings for the communication between master and remote using zynqMP_r5_map_mem_region API, it also initializes interrupt controller GIC and register the interrupt service routine for IPI using zynqMP_r5_gic_initialize API. Echo test calls the remoteproc_resource_init API to create the virtio/RPMsg devices required for IPC with the master context. Invocation of this API causes remoteproc on the FreeRTOS to use the rpmsg name service announcement feature to advertise the rpmsg channels served by the application. The master receives the advertisement messages and performs the following tasks: 1. Invokes the channel created callback registered by the master application. 2. Responds to remote context with a name service acknowledgement message. After the acknowledgement is received from master, remoteproc on the FreeRTOS invokes the RPMsg channel-created callback registered by the remote application. The RPMsg channel is established at this point. All RPMsg APIs can be used subsequently on both sides for run time communications between the master and remote software contexts. Upon running the master application to send data to remote core, master will generate the payload and send to remote (FreeRTOS) by informing the FreeRTOS with an IPI, the remote will send the data back by master and master will perform a check whether the same data is received. Once the application is ran and task by the FreeRTOS application is done, master needs to properly shut down the remote processor. To shut down the remote processor, the following steps are performed: 1. The master application sends an application-specific shut-down message to the remote context. 2. This FreeRTOS application cleans up application resources, sends a shut-down acknowledge to master, and invokes remoteproc_resource_deinit API to de-initialize remoteproc on the FreeRTOS side. 3. On receiving the shut-down acknowledge message, the master application invokes the remoteproc_shutdown API to shut down the remote processor and de-initialize remoteproc using remoteproc_deinit on its side.

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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
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FILES:
embeddedsw/lib/sw_apps/openamp_matrix_multiply/src/system/freertos/matrix_multiply.c
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ADvised OF THE POSSIBILITY OF SUCH DAMAGE. / 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 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 to 2. Responds to remote context with a name service acknowledgement message After the acknowledgement is received from master, remoteproc on the bare-metal invokes the RPMsg channel-created callback registered by the remote application. The RPMsg channel is established at this point. All RPMsg APIs can be used subsequently on both sides for run time communications between the master and remote software contexts. Upon running the master application to send data to remote core, master will generate the matrices and send to remote (bare-metal) by informing the bare-metal with an IPI, the remote will compute the resulting matrix and send the data back to master. Once the application is ran and task by the bare-metal application is done, master needs to properly shut down the remote processor To shut down the remote processor, the following steps are performed: 1. The master application sends an application-specific shutdown message to the remote context 2. This bare-metal application cleans up application resources, sends a shutdown acknowledge to master, and invokes remoteproc_resource_deinit API to de-initialize remoteproc on the bare-metal side. 3. On receiving the shutdown acknowledge message, the master application invokes the remoteproc_shutdown API to shut down the remote processor and de-initialize remoteproc using remoteproc_deinit on its side.

FILES:
eMBEDDEDSW/LIB/SW_APPS/OPENAMP_MATRIX_MULTIPLY/SRC/SYSTEM/GENERIC/MATRIX_MULTIPLY.C

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/ This is a sample demonstration application that showcases usage of proxy from the remote core. This application is meant to run on the remote CPU running bare-metal. It can print to master console and perform file I/O using proxy mechanism. The init_system is called from main function which defines a shared memory region in MPU settings for the communication between master and remote using zynqMP_r5_map_mem_region API, it also initializes interrupt controller GIC and register the interrupt service routine for IPI using zynqMP_r5_gic_initialize API. The remoteproc_resource_init API is being called to create the virtio/RPMsg devices required for IPC with the master context. Invocation of this API causes remoteproc on the bare-metal to use the 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, this application will use the console to display print
statements and execute file I/O on master by communicating with a proxy application running on the Linux master. Once the application is ran and task by the bare-metal application is done, master needs to properly shut down the remote processor. To shut down the remote processor, the following steps are performed: 1. The master application sends an application-specific shutdown message to the remote context. 2. This bare-metal application cleans up application resources, sends a shutdown acknowledge to master, and invokes remoteproc_resource_deinit API to de-initialize remoteproc on the bare-metal side. 3. On receiving the shutdown acknowledge message, the master application invokes the remoteproc_shutdown API to shut down the remote processor and de-initialize remoteproc using remoteproc_deinit on its side.

FILES:
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This file can be included in FSBL code to get prototype of ps7_init() function
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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(), fputs(), fprintf() and fgets(). Improved performance of f_lseek() on moving to the same or following cluster. Apr 01,'09 R0.07 Merged Tiny-FatFs as a configuration option. _FS_TINY Added long file name feature. Added multiple code page feature. Added re-entrancy for multitask operation. Added auto cluster size selection to f_mkfs(). Added rewind option to f_readdir(). Changed result code of critical errors. Renamed string functions to avoid name collision. Apr 14,'09 R0.07a Separated out OS dependent code on reentrant cfg. Added multiple sector size feature. Jun 21,'09 R0.07c Fixed f_unlink() can return FR_OK on error. Fixed wrong cache control in f_lseek(). Added relative path feature. Added f_chdir() and f_chdrive(). Added proper case conversion to extended character. Nov 03,'09 R0.07e Separated out configuration options from ff.h to 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) Added f_closedir(). Added forced full FAT scan for f_getfree(). (_FS_NOFSINFO) Added forced mount feature with changes of f_mount(). Improved behavior of volume auto detection. Improved write throughput of f_puts() and f_printf(). Changed argument of f_chdrive(), f_mkfs(), disk_read() and disk_write(). Fixed f_write() can be truncated when the file size is close to 4GB. Fixed f_open(), f_mkdir() and f_setlabel() can return incorrect error code. Jan 15,’14 R0.10a Added arbitrary strings as drive number in the path name. (_STR_VOLUME_ID) Added a configuration option of minimum sector size. (_MIN_SS) 2nd argument of f_rename() can have a drive number and it will be ignored. Fixed f_mount() with forced mount fails when drive number is > 1. Fixed f_close() invalidates the file object without volume lock. Fixed f_closedir() returns but the volume lock is left acquired. Fixed creation of an entry with LFN fails on too many SFN collisions. May 19,’14 R0.10b Fixed a hard error in the disk I/O layer can collapse the directory entry. Fixed LFN entry is not deleted on delete/rename an object with lossy converted SFN.

MODIFICATION HISTORY: Ver Who Date Changes ----- ---- -------- 3.9 mn 04/18/18 Resolve build warnings for xilffs library

FILES:
embeddedsw/lib/sw_services/xilffs/src/ff.c

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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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Version 3.1, 31 March 2009

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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)),			\n assemble_name ((FILE), (NAME)),		\n fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
( fputs (".lcomm ", (FILE)),			\n assemble_name ((FILE), (NAME)),		\n fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
if ((LOG)!=0) fprintf ((FILE), ".align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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.ft CW
.nf
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, \*\(\C\) nothing in troff, for use with C<<.

\tr\(\*W\_\)
\ds \*W\_\ 1v\'h\'-1p\'s-2+h\'-1p\'+s0\'v\'.1v\'h\'-1p'
\.ie n \{
  \ds \_\(\*W\_\)
  \ds \Pi pi
  \if (n.H=4u) & (1m=24u) \ds \_\(\*W\_\) \diablo 10 pitch
  \if (n.H=4u) & (1m=20u) \ds \_\(\*W\_\) \diablo 12 pitch
  \ds \L" "
  \ds \R" "
  \ds \C` "
  \ds \C' "
\}b\r\}
\.el\{\}
\ds \_\(\|\(\em\|\)
\ds \Pi \(\*p\)
\ds \L" "
\ds \R" "
\ds \C'
\ds \C'
\}b\r\}
\.e\f\{
\ds \_\(\|\(\em\|\)
\ds \Pi \(\*p\)
\ds \L" "
\ds \R" "
\ds \C'
\ds \C'
\}b\r\}
\.e\f\{
\ds \_\(\|\(\em\|\)
\ds \Pi \(\*p\)
\ds \L" "
\ds \R" "
\ds \C'
\ds \C'
\}b\r\}
\.e\f\{
\ds \_\(\|\(\em\|\)
\ds \Pi \(\*p\)
\ds \L" "
\ds \R" "
\ds \C'
\ds \C'
\}b\r\}
\.e\f\{
\ds \_\(\|\(\em\|\)
\ds \Pi \(\*p\)
\ds \L" "
\ds \R" "
\ds \C'
\ds \C'
\}b\r\}
\.e\f\{
\ds \_\(\|\(\em\|\)
\ds \Pi \(\*p\)
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\ds \_\(\|\(\em\|\)
\ds \Pi \(\*p\)
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\ds \_\(\|\(\em\|\)
\ds \Pi \(\*p\)
\ds \L" "
\ds \R" "
\ds \C'
\ds \C'
\}b\r\}
\.e\f\{
\ds \_\(\|\(\em\|\)
\ds \Pi \(\*p\)
\ds \L" "
\ds \R" "
\ds \C'
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\}b\r\}
\.e\f\{
\ds \_\(\|\(\em\|\)
\ds \Pi \(\*p\)
\ds \L" "
\ds \R" "
\ds \C'
\ds \C'
\}b\r\}
\.e\f\{
\ds \_\(\|\(\em\|\)
\ds \Pi \(\*p\)
\ds \L" "
\ds \R" "
\ds \C'
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\ds \_\(\|\(\em\|\)
\ds \Pi \(\*p\)
\ds \L" "
\ds \R" "
\ds \C'
\ds \C'
\}b\r\}
\.e\f\{
\ds \_\(\|\(\em\|\)
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\ds \C'
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\ds \Pi \(\*p\)
\ds \L" "
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\ds \C'
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\.e\f\{
\ds \_\(\|\(\em\|\)
\ds \Pi \(\*p\)
\ds \L" "
\ds \R" "
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\}b\r\}
\.e\f\{
\ds \_\(\|\(\em\|\)
\ds \Pi \(\*p\)
\ds \L" "
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\ds \C'
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\.e\f\{
\ds \_\(\|\(\em\|\)
\ds \Pi \(\*p\)
\ds \L" "
\ds \R" "
\ds \C'
\ds \C'
\}b\r\}
\.e\f\{
\ds \_\(\|\(\em\|\)
\ds \Pi \(\*p\)
\ds \L" "
\ds \R" "
\ds \C'
\ds \C'
\}b\r\}
\.e\f\{
\ds \_\(\|\(\em\|\)
\ds \Pi \(\*p\)
\ds \L" "

If the F register is turned on, we’ll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index entries marked with X<> in POD. Of course, you’ll have to process the output yourself in some meaningful fashion.

Avoid warning from groff about undefined register 'F'.

.de IX
.. .nr rF 0
.if (n.\(g\).if rF .nr rF 1
.if (n(rF:(n.\(g\)=0)) \{

Accent 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

simple accents for nroff and troff

troff and (daisy-wheel) nroff accents
Open Source Used In IOS XR 700 7.0.0

"corrections for vroff
.if v .ds ~ \n(\n(w'9/10-
*(#H)'s-2\n(\n(\n:u'
*(#H)
" for low resolution devices (crt and lpr)
.if \n(H>23 .if \n(V>19 \\}
}
.rm #[ #] #H #V #F C
" ========================================================================
IX Title "GPL 7"
.TH GPL 7 "2017-08-14" "gcc-7.2.0" "GNU"
" For nroff, turn off justification. Always turn off hyphenation; it makes
" way too many mistakes in technical documents.
.if n .ad 1
.nh
.SH "NAME"
gpl \- GNU General Public License
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.IX Header "DESCRIPTION"
.SS "\s-IGNU\s0 General Public License"
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\text{PP}

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\text{SS} "\$-1\text{TERMS AND CONDITIONS}\text{0}"

\text{IX Subsection} "\text{TERMS AND CONDITIONS}"

\text{IP} "0. Definitions."

\text{IX Item} "0. Definitions."

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RE
RS 4
Sp
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Sp
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Sp
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Sp
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Sp
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@end enumerate

@end enumerate

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@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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@end smallexample

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

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

@end smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
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@end c
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--------------------------------------------------------------------------

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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#!/usr/bin/python
#
# Copyright (C) 2013-2017 Free Software Foundation, Inc.
# # This script is free software; you can redistribute it and/or modify # it under the terms of the GNU General Public License as published by # the Free Software Foundation; either version 3, or (at your option) # any later version.
#
# This script adjusts the copyright notices at the top of source files # so that they have the form:
# # Copyright XXXX-YYYY Free Software Foundation, Inc.
# # It doesn't change code that is known to be maintained elsewhere or # that carries a non-FSF copyright.
# 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):
        pass
self.skip_files = set()
self.skip_dirs = set()
self.skip_extensions = set()
self.fossilised_files = set()
self.own_files = set()

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

    # Skip auto- and libtool-related files
    'aclocal.m4',
    'compile',
    'config.guess',
    'config.sub',
    'depcomp',
    'install-sh',
    'libtool.m4',
    'ltmain.sh',
    'ltoptions.m4',
    'ltversion.m4',
    '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
```python
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+s]+[0-9]\]'

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

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

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

    # Matches a full copyright notice:
    self.copyright_re = re.compile(
        r'([Cc]opyright'  # 1: 'Copyright (C)', etc.
        r'[Cc]opyright\s+\(\[Cc\]\)'  # '[Cc]opyrights+\(\[Cc\]\)'  
        r'[Cc]opyright\s+%s'  # '[Cc]opyrights+%s'
        r'[Cc]opyright\s+&copy;'  # '[Cc]opyrights+&copy;'  
        r'[Cc]opyright\s+©'  # '[Cc]opyrights+©'
        r'copyright = u\''  # 'copyright = u''
        r'\@set\s+copyright\[w-]\)'  # '(@set\s+copyright\[w-\])'

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

    # 3: 'by ', if used
    r'(by\s+)?'  # '(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).
    r'(\+ name +\(?\:\s?' + name + \+\))?)'  # '( + 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.
sel.use_quilt = False

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != ':
            self.errors.report(pathname,
                'trailing characters in @set: ' + after_years)
        return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete (match):
        try:
            next_line = file.next()
        except StopIteration:
            break
        # If the next line doesn’t look like a proper continuation,
        # assume that what we’ve got is complete.
        continuation = self.strip_continuation (next_line)
        if not self.continuation_re.match (continuation):
            break
        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None
        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match (line, match.start())
        assert match
        holder = match.group (4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author (dir, filename):
            assert holder not in self.holders
        elif not holder:
            self.errors.report (pathname, 'missing copyright holder')
            return (False, orig_line, next_line)
        elif holder not in self.holders:
            self.errors.report (pathname,
            'unrecognised copyright holder: ' + holder)
            return (False, orig_line, next_line)
    else:
        # See whether the copyright is associated with the package
        # author.
        canon_form = self.holders[holder]
        if not canon_form:
            return (False, orig_line, next_line)
        # Make sure the author is given in a consistent way.
        line = (line[:match.start (4)]
        + canon_form)
+ line[match.end (4):])

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

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
        + ('' if intro.startswith ('copyright = ') else ' ')
        + canon_form + self.separator
        + line[match.end (2):])

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

    # Strip trailing whitespace
    line = line.rstrip() + '
'

    return (line != orig_line, line, next_line)

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

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    mode = None
    with open (pathname, 'r') as file:
        prev = None
        mode = os.fstat (file.fileno()).st_mode
        for line in file:
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)
selfdirs = []
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 + '
')
        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',
        ])

    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 TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set(['.c', '.C', '.cc', '.h', '.hs', '.f', '.f90', '.f90', '.go', '.go', '.inc', '.java', '.java'])

    def skip_file(self, dir, filename):
        if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
            return True
        if filename == 'README' and os.path.basename(dir) == 'params':
            return True

        return False

        if filename == 'README' and os.path.basename(dir) == 'params':
            return True

        return False
return True
return GenericFilter.skip_file (self, dir, filename)

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

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

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

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

        self.skip_dirs |= set (['
            # Imported from GLIBC.
            'soft-fp',
        ])

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

        self.skip_files |= set (['
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set (['
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set (['
            # Contains markup around the copyright owner.
            'spine.xml',
        ])
def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)
        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
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        self.add_external_author('University of Toronto.')
class GCCCmdLine(CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('..', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnattools')
        self.add_dir('gotools')
        self.add_dir('include')
        # intl is imported from upstream.
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libc')
        # libcilk is imported from upstream.
        self.add_dir('libcpp', LibCppFilter())
        self.add_dir('libdecremental')
        # libffi is imported from upstream.
        self.add_dir('libgcc', LibGCCFilter())
        self.add_dir('libgfortran')
        # libgo is imported from upstream.
        self.add_dir('libgomp')
        self.add_dir('libhsail-rt')
        self.add_dir('libiberty')
        self.add_dir('libitm')
        self.add_dir('libobjc')
        # liboffload 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',
                             'libcpp', 'libdecremental', 'libgcc', 'libgfortran',
                             'libgomp', 'libhsail-rt', 'libiberty', 'libitm',
                             'libobjc', 'libquadmath', 'libssp']
        # libsanitizer is imported from upstream.
        # maintainer-scripts maintainer-scripts
        # zlib is imported from upstream.
GCCCmdLine().main()

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

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

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

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

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

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

   a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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

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

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

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

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

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

## Additional flags when building libraries and with threads
THREADS CPPFLAGS = -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/\(^.*\)\(.*\)\|^\(.*\)/\1\2 /g" > $\;\ 
[ -s $@ ] || rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "\"s/\(^.*\)\(.*\)\|^\(.*\)/\1\2 /g" > $\;\ 
[ -s $@ ] || rm -f $@"

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

## Bind internal references
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bs

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
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* tcp_window_size.c
* by Mark Gates <mgates@nlanr.net>
* *------------------------------------------------------------------
* set/getsockopt
* *------------------------------------------------------------------ */

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1.142 iw 4.9

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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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-----------------------------------------------------------------------------
opensl_io.c:
Android OpenSL input/output module (header)
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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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1.156 less 487

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

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1.162 libcanberra 0.30-r0

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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.)

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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
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functions (ten lines or less in length), then the use of the object
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work. (Executables containing this object code plus portions of the
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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.

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a) Accompany the work with the complete corresponding
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with the Library, with the complete machine-readable "work that
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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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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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

exclusions = set(['relicense.py'])

def update(text):
    if text.find(lgpl3_header) == -1:
        return text, False
    return text.replace(lgpl3_header, mpl2_header), True

rootdir = sys.argv[1]
for root, sub_folders, files in os.walk(rootdir):
    for basename in files:
        if basename in exclusions:
            print 'SKIPPED', filename
            continue
        filename = os.path.join(root, basename)
        fo = file(filename)
        text = fo.read()
        fo.close()

        text, updated = update(text)
        if updated:
            fo = file(filename, "w")
            fo.write(text)
            fo.close()
            print 'UPDATED', filename
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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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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
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 distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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

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

b) Give prominent notice with the combined library of the fact...
that part of it is a work based on the Library, and explaining
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

That's all there is to it!

1.189 libgudev 231-r0
1.189.1 Available under license:

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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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   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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This option is useful when you wish to copy part of the code of
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
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1.192 libidn 1.33-r0

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1.197 libmatchbox 1.12-r0

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

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

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating 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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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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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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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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@c Local Variables:
c ispell-local-pdict: "ispell-dict"
c End:

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1.202 libnewt 0.52.20-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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1.205 libnotify 0.7.7-r0

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

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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1.207 libogg 1.3.2-r0

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1.209 libomxil 0.9.3-r0

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1.214 libpcre 8.41-r0

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS
-----------------------------

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,

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PCRE JUST-IN-TIME COMPILATION SUPPORT
--------------------------------------

Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

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Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

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**1.215 libpcre2 10.23-r0**

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**THE BASIC LIBRARY FUNCTIONS**

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

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
PCRE2 JUST-IN-TIME COMPILATION SUPPORT
--------------------------------------

Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

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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

#ifdef(_MSC_VER) && (_MSC_VER < 1900)
#define snprintf _snprintf
#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
#endif
/* Compile-time error numbers start at this value. It should probably never be changed. This #define is a copy of the one in pcre2_internal.h. */

#define COMPILE_ERROR_BASE 100

/* Standard C headers */

#include <ctype.h>
#include <limits.h>
#include <stddef.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

/* PCRE2 headers */

#include "pcre2.h"
#include "pcre2posix.h"

/* When compiling with the MSVC compiler, it is sometimes necessary to include a "calling convention" before exported function names. (This is secondhand information; I know nothing about MSVC myself). For example, something like

void __cdecl function(....)

might be needed. In order so make this easy, all the exported functions have PCRE2_CALL_CONVENTION just before their names. It is rarely needed; if not set, we ensure here that it has no effect. */

#ifndef PCRE2_CALL_CONVENTION
#define PCRE2_CALL_CONVENTION
#endif

/* Table to translate PCRE2 compile time error codes into POSIX error codes. Only a few PCRE2 errors with a value greater than 23 turn into special POSIX codes: most go to REG_BADPAT. The second table lists, in pairs, those that don't. */

static const int eint1[] = {
  0,   /* No error */
  REG_EESCAPE, /* \ at end of pattern */
  REG_EESCAPE, /* \c at end of pattern */
  REG_EESCAPE, /* unrecognized character follows \ */
  REG_BADBR,   /* numbers out of order in { } quantifier */
};
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, /* PCRE2 does not support \N{name}, \U, or \u */
};

/* 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);
Open Source Used In IOS XR 700 7.0.0

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

    /* When REG_NOSUB was specified, or if no vector has been passed in which to
put captured strings, ensure that nmatch is zero. This will stop any attempt to
write to pmatch. */

if ((preg->re_cflags & REG_NOSUB) != 0 || pmatch == NULL) nmatch = 0;

/*============================================================================
REG_STARTEND is a BSD extension, to allow for non-NUL-terminated strings.
The man page from OS X says "REG_STARTEND affects only the location of the
string, not how it is matched". That is why the "so" value is used to bump the
start location rather than being passed as a PCRE2 "starting offset". */

if ((eflags & REG_STARTEND) != 0)
{
    if (pmatch == NULL) return REG_INVARG;
    so = pmatch[0].rm_so;
    eo = pmatch[0].rm_eo;
}
else
{
    so = 0;
    eo = (int)strlen(string);
}

rc = pcre2_match((const pcre2_code *)preg->re_pcre2_code,
(const 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)
    {

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Glenn Randers-Pehrson
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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.

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

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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.

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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

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

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

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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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.
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.

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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.

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

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   (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.)

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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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uses the Library", as object code and/or source code, so that the
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For an executable, the required form of the "work that uses the
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Otherwise, if the work is a derivative of the Library, you may 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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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)

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Author: Marc Russell
Released: 16th January 2008

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1.228 libsocketcan 0.0.10-r0

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Version 2.1, February 1999

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also 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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d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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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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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
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Library is used in it and that the Library and its use are covered by
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during execution displays copyright notices, you must include the
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of these things:

a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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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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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Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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1.236 libunistring 0.9.7-r0

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Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
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have designed this version of the GPL to prohibit the practice for those
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stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
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1.238 liburcu 0.10.0-r0

1.238.1 Available under license:

Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


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

commit id: 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009:

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to
LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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1.239 liburi-perl-native 1.72-r0

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1.240 libusb-compat 0.1.5-r0

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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
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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  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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**1.242 libvcu-xlnx git-r0**

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1.243 libvorbis 1.3.5-r0

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Authors: Loren Merritt <lorenm@u.washington.edu>
        Anton Mitrofanov <BugMaster@narod.ru>
        Jason Garrett-Glaser <darkshikari@gmail.com>
        Henrik Gramner <hengar-6@student.liu.se>

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Balzs Dn <balazs.dan@gmail.com>
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1.246 libwnck 2.31.0-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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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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1.257 libxfce4util 4.12.1-r0

1.257.1 Available under license:

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Functions

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</tr>
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<td>#define XFCE_LICENSE_LGPL</td>
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Types and Values

char

xfce_get_license_text()
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Contains the text of the GNU Lesser General Public License.

```c
const gchar*
xfce_get_license_text (<em class="parameter"><code>license_type</code></em>);</pre>
<p>Returns the text of the software license specified in the
<em class="parameter"><code>license_type</code></em><code>}</code></p>
translated to the current language. If no
translation is available, the english license text will
be returned. </p>
<p>the license text for <em class="parameter"><code>license_type</code></em>.
</p>
<p>The license text to return from <a href="libxfce4util-Software-Licenses.html#xfce-get-license-text" title="xfce_get_license_text()"><code>xfce_get_license_text()</code></a>. </p>
<p>Members</p>
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of this license document, but changing it is not allowed.

[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.

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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.)

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 * The license text to return from xfce_get_license_text().
 */
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{
    XFCE_LICENSE_TEXT_BSD,
    XFCE_LICENSE_TEXT_GPL,
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} XfceLicenseTextType;

const gchar *xfce_get_license_text (XfceLicenseTextType license_type) G_GNUC_PURE;

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                  (XPM - X PixMap format version 2 & 3)
Internet:       lehors@sophia.inria.fr
Surface Mail:   Arnaud LE HORS, INRIA - Sophia Antipolis,
                 2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone:    (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

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1.284 linpack 1.0-r0

1.285 linux-libc-headers 4.12-r0

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

.. note::

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  Felix Domke <tmbinc@elitedvb.net>,
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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * 
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 * 
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 * 
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 * 
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire SDU, and leave <small_buffer_data> bytes empty at the start. Then copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large buffers. This is done by 2 things:
  1) skb->destructor / skb->atm.recycle_buffer combined, allow nicstar_free_rx_skb to be called to recycle large data buffers
  2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation details.

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* M. Welsh, 6 July 1996
*/

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The 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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  Dennis Noermann <dennis.noermann@noernet.de>,
  Felix Domke <tmbinc@elitedvb.net>,
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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE)
Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

Linux driver for the IDT77201 NICStAR PCI ATM controller.
PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
see init_nicstar() for PHY initialization to change this. This driver
expects the Linux ATM stack to support scatter-gather lists
(skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

Implementing minimal-copy of received data:
IDT always receives data into a small buffer, then large buffers
as needed. This means that data must always be copied to create
the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
Fix is simple: make large buffers large enough to hold entire
SDU, and leave <small_buffer_data> bytes empty at the start. Then
copy small buffer contents to head of large buffer.
Trick is to avoid fragmenting Linux, due to need for a lot of large
buffers. This is done by 2 things:
  1) skb->destructor / skb->atm.recycle_buffer
     combined, allow nicstar_free_rx_skb to be called to
     recycle large data buffers
  2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation
details.

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M. Welsh, 6 July 1996
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1.287 Imbench 3.0-a9-r2

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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.

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and tweaking of systems and applications. If you are tuning the
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benchmarks to evaluate the performance effects of various
modifications; Swap results with other developers; use the
networking numbers in isolation. The restrictions only kick
in when you go to *publish* the results. If you sped up the
TCP stack by a factor of 2 and want to publish a paper with the
various tweaks or algorithms used to accomplish this goal, then
you can publish the networking numbers to show the improvement.
However, the paper *must* also include the rest of the standard
Imbench numbers to show how your tweaks may (or may not) have
impacted the rest of the system. The full set of numbers may
be included in an appendix, but they *must* be included in the
paper.

This helps protect the community from adopting flawed technologies
based on incomplete data. It also helps protect the community from
misleading marketing which tries to sell systems based on partial
(skewed) Imbench performance results.

We have seen many cases in the past where partial or misleading
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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
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* 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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/*
* imap_gssapi.c is partially derived from sample code in:
* GSS-API Programming Guide
* Part No: 816-1331-11
* Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.
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* hmac.c is derived from:

Network Working Group   H. Krawczyk
Request for Comments: 2104    IBM
Category: Informational    M. Bellare
      UCSD
      R. Canetti
      IBM
      February 1997

HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code

Parts of nss.c are derived from the Mozilla NSS 3.9.2 source, mozilla/security/nss/cmd/smimetools/cmsutil.c. Therefore:

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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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1.315 mesa 17.1.7-r0

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<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
<br/>

<p>
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</p>
/* 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 Specficiation 4.30.6, section 3.1]
  * In this file, we test each of these in turn as follows:
    * Identifier characters: All pass through unchanged
    * Punctuation: All pass through unchanged
    * Special: Empty directive replaced with blank line
      * Line continuation merges two lines, then a blank line
    * Whitespace: 4 horizontal space characters each replaced with space
      * 2 newline characters each replaced with a newline

*/

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
_0123456789
.
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Modemu Version 0.0.1
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1.323 modutils-initscripts 1.0-r7

1.324 mozjs 17.0.0-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>,
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)
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-- $Id: COPYING,v 1.5 2017/01/08 00:33:50 tom Exp $
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To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
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the "copyright" line and a pointer to where the full notice is found.

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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

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Appendix: How to Apply These Terms to Your New Programs

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

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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:

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    <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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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
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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.)

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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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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
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4. You may copy and distribute the Library (or a portion or
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
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work, in isolation, is not a derivative work of the Library, and
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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
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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.

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1.336 net-tools 1.60-20-r0

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This package parses SPDX license expression strings describing license terms, like [package.json license strings](https://docs.npmjs.com/files/package.json#license), into consistently structured ECMAScript objects. The npm command-line interface depends on this package, as do many automatic license-audit tools.

In a nutshell:

```javascript
var parse = require('spdx-expression-parse')
var assert = require('assert')

assert.deepEqual(
//Licensed under the terms of the Two-Clause BSD License.
parse('BSD-2-Clause'),
{license: 'BSD-2-Clause'}
)

assert.throws(function () {
//An invalid SPDX license expression.
//Should be `Apache-2.0`.
parse('Apache 2')
})

assert.deepEqual(
//Dual licensed under LGPL 2.1 or a combination of the Three-Clause BSD License and the MIT License.
//BSD License and the MIT License.
parsed('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:

```javascript
require('spdx-license-ids').forEach(function (id) {
  require('spdx-exceptions').forEach(function (e) {
    assert.deepEqual(parse(id + ' WITH ' + e),
      {license: id, exception: e})
  })
})
```

2. The license expression language, for describing simple and complex license terms, like `MIT` for MIT-licensed and `(GPL-2.0 OR Apache-2.0)` for dual-licensing under GPL 2.0 and Apache 2.0. This package implements the license expression language.

```javascript
assert.deepEqual(
  // Licensed under a combination of the MIT License and a combination
  // of LGPL 2.1 (or a later version) and the Three-Clause BSD License.
  parse('MIT AND (LGPL-2.1+ AND BSD-3-Clause)'),
  {left: {license: 'MIT'},
   conjunction: 'and',
   right: {
     left: {license: 'LGPL-2.1', plus: true},
     conjunction: 'and',
     right: {license: 'BSD-3-Clause'}}
})
```
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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation

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

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Ajay Joshi <jaj@google.com>
Balzs Dan <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlere@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@gmail.com>
Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
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1.347 ntp 4.2.8p10-r0

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

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1. [1]Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock
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<Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support

12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)

13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver

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20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite

21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver

22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver

23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port

24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port

25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul

26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or
[28]<H.Lambermont@chello.nl> ntpswEEP

27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)

28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling

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30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications

31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19
38. [41]Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
39. [42]Jeffrey Mogul <mogul@pa.dec.com>(nttrace utility
40. [43]Tom Moore <tmoore@fievel.daytonoh.nrc.com> i386 svr4 port
41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
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47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
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49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. [59]Tomoka TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
References

1. mailto:takao_abe@xurb.jp
2. mailto:mark_andrews@isc.org
3. mailto:altmeier@atlsoft.de
4. mailto:bvais@mailman1.intel.co
5. mailto:kirkwood@striderfm.intel.com
6. mailto:michael.barone@lmco.com
7. mailto:karl@owl.HQ.ileaf.com
8. mailto:greg.brackley@bigfoot.com
9. mailto:Marc.Brett@westgeo.com
10. mailto:Piete.Brooks@cl.cam.ac.uk
11. mailto:nelson@bolyard.me
12. mailto:Jean-Francois.Boudreault@viagenie.qc.ca
13. mailto:reg@dwl.com
14. mailto:clift@ml.csiro.au
15. mailto:casey@csc.co.za
16. mailto:Sven_Dietrich@trimble.COM
17. mailto:duwe@immd4.informatik.uni-erlangen.de
18. mailto:dennis@mrbill.canet.ca
19. mailto:jhay@icomtek.csir.co.za
20. mailto:davehart@davehart.com
21. mailto:neoclock4x@linum.com
22. mailto:glenn@herald.usask.ca
23. mailto:iglesias@uci.edu
24. mailto:jagubox.gsfc.nasa.gov
25. mailto:kardel@ntp.org
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37. mailto:loie@ni.umd.edu
38. mailto:thorinn@diku.dk
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/* -*- Mode: Text -*- */
copyright = {
  date = "1992-2017";
  owner = "The University of Delaware and Network Time Foundation";
  eaddr = "http://bugs.ntp.org, bugs@ntp.org";
  type = ntp;
};

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `eval VERSION=`\ sed -e "s/\*\*\*/\*/g" < ../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 .
 */
"Clone me," says Dolly sheepishly.

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```

Content starting in 2011 from Harlan Stenn, Danny Mayer, and Martin Burnicki is:
The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

- Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
- Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
- Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
- Viraj Bais <vbais@mailman1.intel.com> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
- Michael Barone <michael.barone@lmco.com> GPSVME fixes
- Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
- Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iomap code into separate modules.
- Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
- Pietro Brooks <Pietro.Brooks@cl.cam.ac.uk> MSF clock
driver, Trimble PARSE support

Nelson B Bolyard &lt;nelson@bolyard.me&gt; update and complete broadcast and crypto features in sntp

Jean-Francois Boudreault &lt;Jean-Francois.Boudreault@viagenie.qc.ca&gt; IPv6 support

Reg Clemens &lt;reg@dwf.com&gt; Oncore driver (Current maintainer)

Steve Clift &lt;clift@ml.csiro.au&gt; OMEGA clock driver

Casey Crellin &lt;casey@csc.co.za&gt; vxWorks (Tornado) port and help with target configuration

Sven Dietrich &lt;sven_dietrich@trimble.com&gt; Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.

John A. Dundas III &lt;dundas@salt.jpl.nasa.gov&gt; Apple A/UX port

Torsten Duwe &lt;duwe@immd4.informatik.uni-erlangen.de&gt; Linux port

Dennis Ferguson &lt;dennis@mrbill.canet.ca&gt; foundation code for NTP Version 2 as specified in RFC-1119

John Hay &lt;jhay@icomtek.csir.co.za&gt; IPv6 support and testing

Dave Hart &lt;davehart@davehart.com&gt; General maintenance, Windows port interpolation rewrite

Claas Hilbrecht &lt;neoclock4x@linum.com&gt; NeoClock4X clock driver

Glenn Hollinger &lt;glenn@herald.usask.ca&gt; GOES clock driver

Mike Iglesias &lt;iglesias@uci.edu&gt; DEC Alpha port

Jim Jagielski &lt;jim@jagubox.gsfc.nasa.gov&gt; A/UX port

Jeff Johnson &lt;jbj@chatham.usdesign.com&gt; massive prototyping overhaul

Hans Lambermont &lt;H.Lambermont@chello.nl&gt; ntpsweep

Poul-Henning Kamp &lt;phk@FreeBSD.ORG&gt; Oncore driver (Original author)

Frank Kardel &lt;kardel@ntp.org&gt; Rewrote &lt;tt&gt;snntp&lt;/tt&gt; to comply with NTPv4 specification, &lt;tt&gt;ntpq saveconfig&lt;/tt&gt;

Johannes Maximilian Kuehn &lt;kuehn@ntp.org&gt; RS/6000 AIX modifications, HPUX modifications

Dave Katz &lt;dkatz@cisco.com&gt; RS/6000 AIX port

Craig Leres &lt;leres@ee.lbl.gov&gt; 4.4BSD port, ppsclock, Magnavox GPS clock drivers

George Lindholm &lt;lindholm@ucs.ubc.ca&gt; SunOS 5.1 port

Louis A. Mamakos &lt;louie@ni.umd.edu&gt; MD5-based
authentication</li>
<li>adaptation of foundation code for Version 3 as specified in RFC-1305</li>
<li>Danny Mayer <mailto:mayer@ntp.org></li>
<li>Network I/O, Windows Port, Code Maintenance</li>
<li>Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36</li>
<li>Wolfgang Moeller <mailto:moeller@gwdg1.dnet.gwdw.de></li>
<li>VMS port</li>
<li>Jeffrey Mogul <mailto:mogul@pa.dec.com></li>
<li>ntptrace utility</li>
<li>Tom Moore <mailto:moore@fievel.daytonoh.ncri.com></li>
<li>i386 svr4 port</li>
<li>Kamal A Mostafa <mailto:kamal@whence.com></li>
<li>SCO OpenServer port</li>
<li>Derek Mulcahy <mailto:derek@toybox.demon.co.uk></li>
<li>ARCRON MSF clock driver</li>
<li>Rob Neal <mailto:neal@ntp.org></li>
<li>Bencomm refclock and config/parse code maintenance</li>
<li>Derek Hart-Davis <mailto:d@hd.org></li>
<li>ARCROM MSF clock driver</li>
<li>Dirce Richards <mailto:dirce@zk3.dec.com></li>
<li>Digital UNIX V4.0 port</li>
<li>Wilfredo Sanchez <mailto:wsanchez@apple.com></li>
<li>added support for NetInfo</li>
<li>Nick Sayer <mailto:nrapple@quack.kfu.com></li>
<li>SunOS streams modules</li>
<li>Jack Sasportas <mailto:jack@innovativeinternet.com></li>
<li>Saved a Lot of space on the stuff in the html/pic/ subdirectory</li>
<li>Ray Schnitzler <mailto:schnitz@unipress.com></li>
<li>Unixware1 port</li>
<li>Michael Shields <mailto:shields@tembel.org></li>
<li>USNO clock driver</li>
<li>Jeff Steinman <mailto:jss@pebbles.jpl.nasa.gov></li>
<li>Datum PTS clock driver</li>
<li>Harlan Stenn <mailto:harlan@pfcs.com></li>
<li>GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)</li>
<li>Kenneth Stone <mailto:ken@sdd.hp.com></li>
<li>HP-UX port</li>
<li>Ajit Thyagarajan <mailto:ajit@ee.udel.edu></li>
<li>IP multicast/anycast support</li>
<li>Tomoaki TSURUOKA <mailto:tsuruoka@nc.fukuoka-u.ac.jp></li>
<li>TRAK clock driver</li>
<li>Brian Utterback <mailto:brian.utterback@oracle.com></li>
<li>General codebase, Solaris issues</li>
<li>Loganaden Velvindron <mailto:loganaden@gmail.com></li>
<li>Sandboxing (libseccomp) support</li>
<li>Paul A Vixie <mailto:vixie@vix.com></li>
<li>TrueTime GPS driver, generic TrueTime clock driver</li>
<li>Loganaden Velvindron <mailto:loganaden@gmail.com></li>
<li>Brian Utterback <mailto:brian.utterback@oracle.com></li>
1.348 ofono 1.20-r0

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1.351 openssh 7.5p1-r0
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/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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 */

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

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

typedef struct pollfd {

int fd;
short events;
short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020

#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 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 WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) ((int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1))
#define WTERMSIG(w) ((int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1))
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
*/
#else
#endif
*/
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1.355 orc 0.4.27
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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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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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### 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

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#!perl

copyright.t

=head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = ";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\b\d{4,}/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

Open Source Used In IOS XR 700 7.0.0
sub v_year
# returns the latest copyright year shown in perl -v
{

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

$year;
}
---
abstract: 'Build and install Perl modules'
author:
 - 'Ken Williams <kwilliams@cpan.org>'
 - "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.'
buildRequires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.364 phytool 1.0.1+gitAUTOINC+3149bfdb4f

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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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When the MPU is used the standard (non MPU) API functions are mapped to equivalents
that start "MPU_", the prototypes for which are defined in this header files.
This will cause the application code to call the MPU_ version which wraps the
non-MPU version with privilege promoting then demoting code, so the kernel code
always runs will full privileges. /

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/include/mpu_prototypes.h
--------------------------------------------------------------------------------
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Portable layer API. Each function must be defined for each port.

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

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Stream buffers are used to send a continuous stream of data from one task or interrupt to another. Their implementation is light weight, making them particularly suited for interrupt to task and core to core communication scenarios. NOTE: Uniquely among FreeRTOS objects, the stream buffer implementation (so also the message buffer implementation, as message buffers are built on top of stream buffers) assumes there is only one task or interrupt that will write to the buffer (the writer), and only one task or interrupt that will read from the buffer (the reader). It is safe for the writer and reader to be different tasks or interrupts, but, unlike other FreeRTOS objects, it is not safe to have multiple different writers or multiple different readers. If there are to be multiple different writers then the application writer must place each call to a writing API function (such as xStreamBufferSend()) inside a critical section and set the send block time to 0. Likewise, if there are to be multiple different readers then the application writer must place each call to a reading API function (such as xStreamBufferRead()) inside a critical section section and set the receive block time to 0. /

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

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embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/GCC/ARM_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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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
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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 to generate a heap memory area. See heap_1.c, heap_2.c and heap_4.c for alternative implementations, and the memory management pages of http://www.FreeRTOS.org for more information.

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/MemMang/heap_3.c
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http://www.freertos.org http://aws.amazon.com/freertos 1 tab 4 spaces! / A sample implementation of pvPortMalloc() and vPortFree() that combines (coalescences) adjacent memory blocks as they are freed, and in so doing limits memory fragmentation. See heap_1.c, heap_2.c and heap_3.c for alternative implementations, and the memory management pages of http://www.freertos.org for more information. /

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/MemMang/heap_4.c
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http://www.freertos.org http://aws.amazon.com/freertos 1 tab 4 spaces! / A sample implementation of pvPortMalloc() that allows the heap to be defined across multiple non-contiguous blocks and combines (coalescences) adjacent memory blocks as they are freed. See heap_1.c, heap_2.c, heap_3.c and heap_4.c for alternative implementations, and the memory management pages of http://www.freertos.org for more information. usage notes: vPortDefineHeapRegions() must be called before pvPortMalloc(). pvPortMalloc() will be called if any task objects (tasks, queues, event groups, etc.) are created, therefore vPortDefineHeapRegions() must be called before any other
objects are defined. vPortDefineHeapRegions() takes a single parameter. The parameter is an array of HeapRegion_t structures. HeapRegion_t is defined in portable.h as typedef struct HeapRegion { uint8_t pucStartAddress; << Start address of a block of memory that will be part of the heap. size_t xSizeInBytes; << Size of the block of memory. } HeapRegion_t; The array is terminated using a NULL zero sized region definition, and the memory regions defined in the array must appear in address order from low address to high address. So the following is a valid example of how to use the function. HeapRegion_t xHeapRegions[] { { ( uint8_t ) 0x80000000UL, 0x10000 }, << Defines a block of 0x10000 bytes starting at address 0x80000000 { ( uint8_t ) 0x90000000UL, 0xa0000 }, << Defines a block of 0xa0000 bytes starting at address of 0x90000000 { NULL, 0 } << Terminates the array. }; vPortDefineHeapRegions( xHeapRegions ); << Pass the array into vPortDefineHeapRegions(). Note 0x80000000 is the lower address so appears in the array first. /

FILES:
embeddedsw/ThirdParty/bsp/freertos10_xilinx/src/Source/portable/MemMang/heap_5.c

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embeddedsw/XilinxProcessorIPLib/drivers/axietheren/data/axietheren_fifo_intr_header.h
embeddedsw/XilinxProcessorIPLib/drivers/axietheren/data/axietheren_header.h
embeddedsw/XilinxProcessorIPLib/drivers/axietheren/data/axietheren_intr_header.h
embeddedsw/XilinxProcessorIPLib/drivers/axietheren/data/axietheren_mcdma_intr_header.h
embeddedsw/XilinxProcessorIPLib/drivers/axietheren/data/axietheren_tapp.tcl
embeddedsw/XilinxProcessorIPLib/drivers/axietheren/examples/avb/xavb.c
embeddedsw/XilinxProcessorIPLib/drivers/axietheren/examples/avb/xavb.h
embeddedsw/XilinxProcessorIPLib/drivers/axietheren/examples/avb/xavb_example.c
embeddedsw/XilinxProcessorIPLib/drivers/axietheren/examples/avb/xavb_hw.c
embeddedsw/XilinxProcessorIPLib/drivers/axietheren/examples/avb/xavb_hw.h
embeddedsw/XilinxProcessorIPLib/drivers/axietheren/examples/avb/xavb_ptp_bmca.c
embeddedsw/XilinxProcessorIPLib/drivers/axietheren/examples/avb/xavb_ptp_packets.c
embeddedsw/XilinxProcessorIPLib/drivers/axietheren/examples/avb/xavb_rtc_sync.c
embeddedsw/XilinxProcessorIPLib/drivers/axietheren/examples/xaxietheren_example.c
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embeddedsw/XilinxProcessorIPLib/drivers/axietheren/examples/xaxietheren_example_extvlan.c
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embeddedsw/XilinxProcessorIPLib/drivers/axietheren/src/xaxietheren_g.c
embeddedsw/XilinxProcessorIPLib/drivers/dp/examples/xdp_tx_timer_example.c
embeddedsw/XilinxProcessorIPLib/drivers/dp/src/xdp.c
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embeddedsw/XilinxProcessorIPLib/drivers/dp/src/xdp_edid.c
embeddedsw/XilinxProcessorIPLib/drivers/dp/src/xdp_hw.h
embeddedsw/XilinxProcessorIPLib/drivers/dp/src/xdp_intr.c
embeddedsw/XilinxProcessorIPLib/drivers/dp/src/xdp_mst.c
embeddedsw/XilinxProcessorIPLib/drivers/dp/src/xdp_selftest.c
embeddedsw/XilinxProcessorIPLib/drivers/dp/src/xdp_sinit.c
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embeddedsw/XilinxProcessorIPLib/drivers/dpdma/examples/xdpdma_video_example.h
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embeddedsw/XilinxProcessorIPLib/drivers/dpdma/src/xdpdma.c
embeddedsw/XilinxProcessorIPLib/drivers/dpdma/src/xdpdma.h
embeddedsw/XilinxProcessorIPLib/drivers/dpdma/src/xdpdma_hw.h
embeddedsw/XilinxProcessorIPLib/drivers/dpdma/src/xdpdma_intr.c
embeddedsw/XilinxProcessorIPLib/drivers/dpdma/src/xdpdma_sinit.c
embeddedsw/XilinxProcessorIPLib/drivers/dphy/data/dphy.mdd
embeddedsw/XilinxProcessorIPLib/drivers/dphy/data/dphy.tcl
embeddedsw/XilinxProcessorIPLib/drivers/dphy/data/dphy_tapp.tcl
embeddedsw/XilinxProcessorIPLib/drivers/dphy/data/dphy_header.h
embeddedsw/XilinxProcessorIPLib/drivers/dphy/examples/xdphy_example_selftest.c
embeddedsw/XilinxProcessorIPLib/drivers/dphy/src/xdphy.c
embeddedsw/XilinxProcessorIPLib/drivers/dphy/src/xdphy.g.c
embeddedsw/XilinxProcessorIPLib/drivers/dphy/src/xdphy_hw.h
embeddedsw/XilinxProcessorIPLib/drivers/dphy/src/xdphy_selftest.c
embeddedsw/XilinxProcessorIPLib/drivers/dphy/src/xdphy_sinit.c
embeddedsw/XilinxProcessorIPLib/drivers/dppsu/data/dppsu.mdd
embeddedsw/XilinxProcessorIPLib/drivers/dppsu/data/dppsu.tcl
embeddedsw/XilinxProcessorIPLib/drivers/dppsu/examples/xdppsu_common_example.c
embeddedsw/XilinxProcessorIPLib/drivers/dppsu/examples/xdppsu_common_example.h
embeddedsw/XilinxProcessorIPLib/drivers/dppsu/examples/xdppsu_intr_example.c
embeddedsw/XilinxProcessorIPLib/drivers/dppsu/examples/xdppsu_poll_example.c
embeddedsw/XilinxProcessorIPLib/drivers/dppsu/examples/xdppsu_selftest_example.c
embeddedsw/XilinxProcessorIPLib/drivers/dppsu/src/xdppsu.c
embeddedsw/XilinxProcessorIPLib/drivers/dppsu/src/xdppsu.h
embeddedsw/XilinxProcessorIPLib/drivers/dppsu/src/xdppsu_edid.c
embeddedsw/XilinxProcessorIPLib/drivers/dppsu/src/xdppsu_hw.h
embeddedsw/XilinxProcessorIPLib/drivers/dppsu/src/xdppsu_intr.c
embeddedsw/XilinxProcessorIPLib/drivers/dppsu/src/xdppsu_selftest.c
embeddedsw/XilinxProcessorIPLib/drivers/dppsu/src/xdppsu_serdes.c
embeddedsw/XilinxProcessorIPLib/drivers/dppsu/src/xdppsu_serdes.h
embeddedsw/XilinxProcessorIPLib/drivers/dppsu/src/xdppsu_sinit.c
embeddedsw/XilinxProcessorIPLib/drivers/dppsu/src/xdppsu_spm.c
embeddedsw/XilinxProcessorIPLib/drivers/dp/examples/xdp_tx_timer_example.c
Embedded software for Xilinx Processor IP Library includes:

- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/examples/src/zcu_tx_dp14/idt_8t49n24x.h
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/examples/src/zcu_tx_dp14/menus.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/examples/src/zcu_tx_dp14/ti_lmk03318.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/examples/src/zcu_tx_dp14/ti_lmk03318.h
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/examples/src/zcu_tx_dp14/videofmc_defs.h
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/examples/src/zcu_tx_dp14/xdptxss_zcu102_dp14_tx.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/examples/src/zcu_tx_dp14/xdptxss_zcu102_tx.h
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/examples/src/zcu_tx_dp14/xvid_frame_crc.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/examples/src/zcu_tx_dp14/xvid_frame_crc.h
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/examples/xdptxss_debug_example.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/examples/xdptxss_intr_example.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/examples/xdptxss_mst_example.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/examples/xdptxss_selftest_example.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/src/dp/xdptxss_dptx.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/src/dp/xdptxss_dptx.h
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/src/dualsplitter/xdptxss_dualsplitter.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/src/dualsplitter/xdptxss_dualsplitter.h
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/src/hdcp1x/xdptxss_hdcp1x.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/src/hdcp1x/xdptxss_hdcp1x.h
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/src/vcf/xdptxss_vcf.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/src/vcf/xdptxss_vcf.h
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/src/xdptxss.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/src/xdptxss_dbg.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/src/xdptxss_g.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/src/xdptxss_hw.h
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/src/xdptxss_intr.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/src/xdptxss_selftest.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dptxss/src/xdptxss_sinit.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dsi/data/dsi.mdd
- Embeddedsw/XilinxProcessorIPLib/drivers/dsi/data/dsi.tcl
- Embeddedsw/XilinxProcessorIPLib/drivers/dsi/data/dsi_tapp.tcl
- Embeddedsw/XilinxProcessorIPLib/drivers/dsi/data/xdsi_header.h
- Embeddedsw/XilinxProcessorIPLib/drivers/dsi/examples/xdsi_example_selftest.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dsi/src/xdsi.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dsi/src/xdsi.h
- Embeddedsw/XilinxProcessorIPLib/drivers/dsi/src/xdsi_g.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dsi/src/xdsi_hw.h
- Embeddedsw/XilinxProcessorIPLib/drivers/dsi/src/xdsi_intr.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dsi/src/xdsi_selftest.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dsi/src/xdsi_sinit.c
- Embeddedsw/XilinxProcessorIPLib/drivers/dsittxss/data/dsittxss.mdd
- Embeddedsw/XilinxProcessorIPLib/drivers/dsittxss/data/dsittxss.tcl
- Embeddedsw/XilinxProcessorIPLib/drivers/dsittxss/data/dsittxss_header.h
- Embeddedsw/XilinxProcessorIPLib/drivers/dsittxss/data/dsittxss_tapp.tcl
- Embeddedsw/XilinxProcessorIPLib/drivers/dsittxss/examples/xdsittxss_intr_example.c
embeddedsw/XilinxProcessorIPLib/drivers/scutimer/examples/xscutimer_intr_example.c
embeddedsw/XilinxProcessorIPLib/drivers/scutimer/examples/xscutimer_polled_example.c
embeddedsw/XilinxProcessorIPLib/drivers/scutimer/src/xscutimer.c
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embeddedsw/XilinxProcessorIPLib/drivers/scutimer/src/xscutimer_g.c
embeddedsw/XilinxProcessorIPLib/drivers/scutimer/src/xscutimer_hw.h
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embeddedsw/XilinxProcessorIPLib/drivers/scuwdt/data/scuwdt.mdd
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embeddedsw/XilinxProcessorIPLib/drivers/scuwdt/data/scuwdt_header.h
embeddedsw/XilinxProcessorIPLib/drivers/scuwdt/data/scuwdt_tapp.tcl
embeddedsw/XilinxProcessorIPLib/drivers/scuwdt/examples/xscuwdt_intr_example.c
embeddedsw/XilinxProcessorIPLib/drivers/scuwdt/examples/xscuwdt_polled_example.c
embeddedsw/XilinxProcessorIPLib/drivers/scuwdt/src/xscuwdt.c
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embeddedsw/XilinxProcessorIPLib/drivers/scuwdt/src/xscuwdt_g.c
embeddedsw/XilinxProcessorIPLib/drivers/scuwdt/src/xscuwdt_hw.h
embeddedsw/XilinxProcessorIPLib/drivers/scuwdt/src/xscuwdt_selftest.c
embeddedsw/XilinxProcessorIPLib/drivers/scuwdt/src/xscuwdt_sinit.c
embeddedsw/XilinxProcessorIPLib/drivers/sd_fec/src/Makefile
embeddedsw/XilinxProcessorIPLib/drivers/sdi_common/data/sdi_common.mdd
embeddedsw/XilinxProcessorIPLib/drivers/sdi_common/src/xv_sdvid.c
embeddedsw/XilinxProcessorIPLib/drivers/sdi_common/src/xv_sdvid.h
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embeddedsw/XilinxProcessorIPLib/drivers/sdiaud/data/sdiaud_tapp.tcl
embeddedsw/XilinxProcessorIPLib/drivers/sdiaud/data/xsdiaud_header.h
embeddedsw/XilinxProcessorIPLib/drivers/sdiaud/examples/xsdiaud_selftest_example.c
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embeddedsw/XilinxProcessorIPLib/drivers/sdiaud/src/xsdiaud_intr.c
embeddedsw/XilinxProcessorIPLib/drivers/sdiaud/src/xsdiaud_selftest.c
embeddedsw/XilinxProcessorIPLib/drivers/sdiaud/src/xsdiaud_sinit.c
embeddedsw/XilinxProcessorIPLib/drivers/sdps/data/sdps.mdd
embeddedsw/XilinxProcessorIPLib/drivers/sdps/data/sdps.tcl
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embeddedsw/XilinxProcessorIPLib/drivers/sdps/src/xsdps_g.c
embeddedsw/XilinxProcessorIPLib/drivers/sdps/src/xsdps_hw.h
embeddedsw/XilinxProcessorIPLib/drivers/sdps/src/xsdps_options.c
embeddedsw/XilinxProcessorIPLib/drivers/sdps/src/xsdps_sinit.c
embeddedsw/XilinxProcessorIPLib/drivers/spdif/data/spdif.mdd
embeddedsw/XilinxProcessorIPLib/drivers/spdif/data/spdif.tcl
embeddedsw/XilinxProcessorIPLib/drivers/spdif/data/spdif_tapp.tcl
embeddedsw/XilinxProcessorIPLib/drivers/spdif/examples/xspdif_intr_example.c
embeddedsw/XilinxProcessorIPLib/drivers/spdif/examples/xspdif_selftest_example.c
embeddedsw/XilinxProcessorIPLib/drivers/spdif/src/xspdif.c
embeddedsw/XilinxProcessorIPLib/drivers/spips/src/xspips_hw.h
embeddedsw/XilinxProcessorIPLib/drivers/spips/src/xspips_options.c
embeddedsw/XilinxProcessorIPLib/drivers/spips/src/xspips_selftest.c
embeddedsw/XilinxProcessorIPLib/drivers/spips/src/xspips_sinit.c
embeddedsw/XilinxProcessorIPLib/drivers/srio/data/srio.mdd
embeddedsw/XilinxProcessorIPLib/drivers/srio/data/srio.tcl
embeddedsw/XilinxProcessorIPLib/drivers/srio/examples/xsrio_dma_loopback_example.c
embeddedsw/XilinxProcessorIPLib/drivers/srio/src/srio.c
embeddedsw/XilinxProcessorIPLib/drivers/srio/src/srio.h
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embeddedsw/XilinxProcessorIPLib/drivers/tcps/src/xtcps_hw.h
embeddedsw/XilinxProcessorIPLib/drivers/tcps/src/xtcps_options.c
embeddedsw/XilinxProcessorIPLib/drivers/tcps/src/xtcps_selftest.c
embeddedsw/XilinxProcessorIPLib/drivers/uartlite/data/uartlite.mdd
embeddedsw/XilinxProcessorIPLib/drivers/uartlite/data/uartlite.tcl
embeddedsw/XilinxProcessorIPLib/drivers/uartlite/data/uartlite_header.h
embeddedsw/XilinxProcessorIPLib/drivers/uartlite/data/uartlite_INTR_header.h
embeddedsw/XilinxProcessorIPLib/drivers/uartlite/examples/uartlite_INTR_example.c
embeddedsw/XilinxProcessorIPLib/drivers/uartlite/examples/uartlite_INTR_tapp_example.c
embeddedsw/XilinxProcessorIPLib/drivers/uartlite/examples/uartlite_LOW_LEVEL_example.c
embeddedsw/XilinxProcessorIPLib/drivers/uartlite/examples/uartlite_POLLED_example.c
embeddedsw/XilinxProcessorIPLib/drivers/uartlite/examples/uartlite_SELFTEST_example.c
embeddedsw/XilinxProcessorIPLib/drivers/uartlite/src/uartlite.c
embeddedsw/XilinxProcessorIPLib/drivers/uartlite/src/uartlite.h
embeddedsw/XilinxProcessorIPLib/drivers/uartlite/src/uartlite_g.c
embeddedsw/XilinxProcessorIPLib/drivers/uartlite/src/uartlite_i.h
embeddedsw/XilinxProcessorIPLib/drivers/uartlite/src/uartlite_INTR.c
embeddedsw/XilinxProcessorIPLib/drivers/uartlite/src/uartlite_INTR.h
embeddedsw/XilinxProcessorIPLib/drivers/uartlite/src/uartlite_SINIT.c
embeddedsw/XilinxProcessorIPLib/drivers/uartlite/src/uartlite_SINIT.h
embeddedsw/XilinxProcessorIPLib/drivers/uartlite/src/uartlite_OPTIONS.c
embeddedsw/XilinxProcessorIPLib/drivers/uartlite/src/uartlite_SELFTEST.c
embeddedsw/XilinxProcessorIPLib/drivers/uartlite/src/uartlite_STATS.c
embeddedsw/XilinxProcessorIPLib/drivers/uartns550/data/uartns550.mdd
embeddedsw/XilinxProcessorIPLib/drivers/uartns550/data/uartns550.tcl
embeddedsw/XilinxProcessorIPLib/drivers/uartns550/data/uartns550_HEADER.h
embeddedsw/XilinxProcessorIPLib/drivers/uartns550/data/uartns550_INTR_HEADER.h
embeddedsw/XilinxProcessorIPLib/drivers/uartns550/examples/uartns550_HELLO_WORLD_example.c
embeddedsw/XilinxProcessorIPLib/drivers/uartns550/examples/uartns550_INTR_example.c
embeddedsw/XilinxProcessorIPLib/drivers/uartns550/examples/uartns550_LOW_LEVEL_example.c
embeddedsw/XilinxProcessorIPLib/drivers/uartns550/examples/uartns550_POLLED_example.c
embeddedsw/XilinxProcessorIPLib/drivers/uartns550/examples/uartns550_SELFTEST_example.c
embeddedsw/XilinxProcessorIPLib/drivers/uartns550/src/uartns550.c
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embeddedsw/XilinxProcessorIPLib/drivers/uartns550/src/uartns550_FORMAT.c
embeddedsw/XilinxProcessorIPLib/drivers/uartns550/src/uartns550_G.c
embeddedsw/XilinxProcessorIPLib/drivers/uartns550/src/uartns550_I.h
embeddedsw/XilinxProcessorIPLib/drivers/uartns550/src/uartns550_INTR.c
embeddedsw/XilinxProcessorIPLib/drivers/uartns550/src/uartns550_L.c
embeddedsw/XilinxProcessorIPLib/drivers/uartns550/src/uartns550_L.h
embeddedsw/XilinxProcessorIPLib/drivers/uartns550/src/uartns550_OPTIONS.c
embeddedsw/XilinxProcessorIPLib/drivers/uartns550/src/uartns550_SELFTEST.c
embeddedsw/XilinxProcessorIPLib/drivers/uartns550/src/uartns550_SINIT.c
embeddedsw/XilinxProcessorIPLib/drivers/uartns550/src/uartns550_STATS.c
embeddedsw/XilinxProcessorIPLib/drivers/uartps/data/uartps.mdd
embeddedsw/XilinxProcessorIPLib/drivers/uartps/data/uartps.tcl
Open Source Used In IOS XR 700 7.0.0

embeddedsw/XilinxProcessorIPLib/drivers/v_voip_depacketizer56/src/xdepacketizer56_intr.c
embeddedsw/XilinxProcessorIPLib/drivers/v_voip_depacketizer56/src/xdepacketizer56_sinit.c
embeddedsw/XilinxProcessorIPLib/drivers/v_voip_fec_rx/data/v_voip_fec_rx.mdd
embeddedsw/XilinxProcessorIPLib/drivers/v_voip_fec_rx/data/v_voip_fec_rx.tcl
embeddedsw/XilinxProcessorIPLib/drivers/v_voip_fec_rx/src/xvoipfec_rx.c
embeddedsw/XilinxProcessorIPLib/drivers/v_voip_fec_rx/src/xvoipfec_rx.h
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LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
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ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / @file atomic.h @brief Atomic
primitives for libmetal. /

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ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / @file cache.h @brief CACHE
operation primitives for libmetal. /

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

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PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / @file condition.h @brief Condition variable for libmetal. /

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FILES:
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embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/generic/atomic.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/generic/irq.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/generic/main.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/generic/mutex.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/linux/alloc.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/linux/atomic.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/linux/condition.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/linux/irq.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/linux/main.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/linux/mutex.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/linux/shmem.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/linux/spinlock.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/linux/threads.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/linux/zynq/device.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/zephyr/alloc.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/zephyr/atomic.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/zephyr/irq.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/zephyr/main.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/zephyr/mutex.c
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/test/system/zephyr/sys_init.c

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FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/device.h
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OF SUCH DAMAGE. / @file io.h @brief I/O access primitives for libmetal. /

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ADvised OF THE POSSIBILITY OF SUCH DAMAGE. / @file irq.h @brief Interrupt
handling primitives for libmetal. /

FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/irq.h
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@file list.h
@brief List primitives

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for libmetal. / 

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primitives for libmetal. / 

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

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FILES:
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@file gcc/compiler.h
@brief GCC specific primitives for libmetal.

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primatives on microblaze platform. /

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

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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 libmetal initialization.

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/

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embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/freertos/irq.c

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FreeRTOS libmetal irq definitions. /

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FreeRTOS libmetal shared memory handling. /

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freertos libmetal sleep handling. /

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freertos libmetal time handling. /

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libmetal io operations /

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primitives implementation. /

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@brief freertos zynqmp_a53 system primitives for libmetal.

FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/freertos/zynqmp_a53/sys.h

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@brief machine specific system primitives implementation. /

FILES:
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@brief freertos zynqmp_r5 system primitives for libmetal. /

FILES:
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generic libmetal cache handling. /

FILES:
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Generic libmetal device operations. /

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

FILES:
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libmetal irq definitions. /

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Generic mutex primitives for libmetal. /

FILES:
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Generic libmetal sleep handling. /

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

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system primitives for libmetal. /

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ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / @file generic/io.c @brief Generic
libmetal io operations /

FILES:
embeddedsw/ThirdParty/sw_services/libmetal/src/libmetal/lib/system/generic/io.c
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specific io definitions. /

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

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ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. / @file linux/irq.h @brief Linux 
libmetal irq definitions. /

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mutex primitives for libmetal. /

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libmetal shared memory handling. /

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libmetal sleep handling. /

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handling. /

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OF SUCH DAMAGE. / @file zephyr/io.c @brief Zephyr libmetal io operations /

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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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each <metal/...> header can be included without independently without prior
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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/lwip202/src/contrib/ports/xilinx/include/lwipopts.h

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embeddedsw/ThirdParty/sw_services/lwip141/src/contrib/ports/xilinx/include/arch/cc.h
embeddedsw/ThirdParty/sw_services/lwip141/src/contrib/ports/xilinx/include/arch/cpu.h
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
embeddedsw/ThirdParty/sw_services/lwip202/src/contrib/ports/xilinx/include/arch/cpu.h
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/xilinx/netif/xaxiemacif.c
eMBEDDED/ThirdParty/sw_services/lwip141/src/contrib/xilinx/netif/xemacliteif.c
eMBEDDED/ThirdParty/sw_services/lwip141/src/contrib/xilinx/netif/xemacpsif.c
eMBEDDED/ThirdParty/sw_services/lwip202/src/contrib/xilinx/netif/xaxiemacif.c
eMBEDDED/ThirdParty/sw_services/lwip202/src/contrib/xilinx/netif/xemacliteif.c
eMBEDDED/ThirdParty/sw_services/lwip202/src/contrib/xilinx/netif/xemacpsif.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
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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/api/err.c

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code. Author: Leon Woestenberg <leon.woestenberg@gmx.net> This is a DHCP client
for the lwIP TCP/IP stack. It aims to conform with RFC 2131 and RFC 2132. TODO:
- Support for interfaces other than Ethernet (SLIP, PPP, ...) Please coordinate
changes and requests with Leon Woestenberg <leon.woestenberg@gmx.net>
Integration with your code: In lwip/dhcp.h define DHCP_COARSE_TIMER_SECS
(recommended 60 which is a minute) define DHCP_FINE_TIMER_MSECS (recommended 500
which equals TCP coarse timer) Then have your application call dhcp_coarse_tmr()
and dhcp_fine_tmr() on the defined intervals. dhcp_start(struct netif netif);
starts a DHCP client instance which configures the interface by obtaining an IP
address lease and maintaining it. Use dhcp_release(netif) to end the lease and
use dhcp_stop(netif) to remove the DHCP client. /

FILES:
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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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@file Dynamic memory manager This is a lightweight replacement for the standard C library malloc(). If you want to use the standard C library malloc() instead, define MEM_LIBC_MALLOC to 1 in your lwipopts.h To let mem_malloc() use pools (prevents fragmentation and is much faster than a heap but might waste some memory), define MEM_USE_POOLS to 1, define MEM_USE_CUSTOM_POOLS to 1 and create a file "lwippools.h" that includes a list of pools like this (more pools can be added between _START and _END): Define three pools with sizes 256, 512, and 1512 bytes LWIP_MALLOC_MEMPOOL_START LWIP_MALLOC_MEMPOOL(20, 256) LWIP_MALLOC_MEMPOOL(10, 512) LWIP_MALLOC_MEMPOOL(5, 1512) LWIP_MALLOC_MEMPOOL_END / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR `AS IS' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
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stack. Author: Adam Dunkels <adam@sics.se> Simon Goldschmidt /

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

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@file Dynamic pool memory manager lwIP has dedicated pools for many structures
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@brief Packet buffer management Packets are built from the pbuf data structure. It supports dynamic memory allocation for packet contents or can reference externally managed packet contents both in RAM and ROM. Quick allocation for incoming packets is provided through pools with fixed sized pbufs. A packet may span over multiple pbufs, chained as a singly linked list. This is called a "pbuf chain". Multiple packets may be queued, also using this singly linked list. This is called a "packet queue". So, a packet queue consists of one or more pbuf chains, each of which consist of one or more pbufs. CURRENTLY, PACKET QUEUES ARE NOT SUPPORTED!!! Use helper structs to queue multiple packets. The differences between a pbuf chain and a packet queue are very precise but subtle. The last pbuf of a packet has a ->tot_len field that equals the ->len field. It
can be found by traversing the list. If the last pbuf of a packet has a ->next field other than NULL, more packets are on the queue. Therefore, looping through a pbuf of a single packet, has an loop end condition (tot_len p->len), NOT (next NULL). / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This file is part of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se> /

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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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stack. Author: Adam Dunkels <adam@sics.se> / udp.c The code for the User
Datagram Protocol UDP & UDPLite (RFC 3828). / @todo Check the use of `(struct
udp_pcb).chksum_len_rx`!

FILES:
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<kontakt@dspies.de> This is a AutoIP implementation for the lwIP TCP/IP stack.
It aims to conform with RFC 3927. Please coordinate changes and requests with
Dominik Spies <kontakt@dspies.de> / USAGE: define LWIP_AUTOIP 1 in your
lwipopts.h If you don't use tcpip.c (so, don't call, you don't call tcpip_init):
- First, call autoip_init(). - call autoip_tmr() all AUTOIP_TMR_INTERVAL msces,
that should be defined in autoip.h. I recommend a value of 100. The value must
divide 1000 with a remainder almost 0. Possible values are 1000, 500, 333, 250,
200, 166, 142, 125, 111, 100 .... Without DHCP: - Call autoip_start() after
netif_add(). With DHCP:
- define LWIP_DHCP_AUTOIP_COOP 1 in your lwipopts.h.
- Configure your DHCP Client.

FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/ipv4/autoip.c
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FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/core/ipv4/icmp.c
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv4/icmp.c
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Includes

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

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<jani@iv.ro> Simon Goldschmidt original reassembly code by Adam Dunkels <adam@sics.se> /

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FILES:
embeddedsw/ThirdParty/sw_services/lwip141/src/lwip-1.4.1/src/netif/ethernetif.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 accross
multiple threads, all functions except netbuf_new() and netbuf_delete() are not
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@file Network Interface Sequential API module @defgroup netifapi NETIF API @ingroup sequential_api Thread-safe functions to be called from non-TCPIP threads @defgroup netifapi_netif NETIF related @ingroup netifapi To be called from non-TCPIP threads / Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR 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. /

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@file Sockets BSD-Like API module @defgroup socket Socket API @ingroup sequential_api BSD-style socket API\n Thread-safe, to be called from non-TCPIP threads only.\n Can be activated by defining @ref LWIP_SOCKET to 1.\n Header is in posix/sys/socket.h\n 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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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/httpd/fs.c
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/httpd/fsdata.h
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/include/lwip/apps/fs.h

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of the lwIP TCP/IP stack. Author: Adam Dunkels <adam@sics.se> Simon Goldschmidt
/ @defgroup httplib HTTP server @ingroup apps This httpd supports for a
rudimentary server-side-include facility which will replace tags of the form <!-
--tag in any file whose extension is .shtml, .shtm or .ssi with strings provided
by an include handler whose pointer is provided to the module via function
http_set_ssi_handler(). Additionally, a simple common gateway interface (CGI)
handling mechanism has been added to allow clients to hook functions to
particular request URIs. To enable SSI support, define label LWIP_HTTPD_SSI in
lwipopts.h. To enable CGI support, define label LWIP_HTTPD_CGI in lwipopts.h. By
default, the server assumes that HTTP headers are already present in each file
stored in the file system. By defining LWIP_HTTPD_DYNAMIC_HEADERS in lwipopts.h,
this behavior can be changed such that the server inserts the headers
automatically based on the extension of the file being served. If this mode is
used, be careful to ensure that the file system image used does not already
contain the header information. File system images without headers can be
created using the makefsfile tool with the -h command line option. Notes about valid SSI tags: The following assumptions are made about tags used in SSI markers: 1. No tag may contain '-' or whitespace characters within the tag name. 2. Whitespace is allowed between the tag leadin "<!-" and the start of the tag name and between the tag name and the leadout string ">". 3. The maximum tag name length is LWIP_HTTPD_MAX_TAG_NAME_LEN, currently 8 characters. Notes on CGI usage: The simple CGI support offered here works with GET method requests only and can handle up to 16 parameters encoded into the URI. The handler function may not write directly to the HTTP output but must return a filename that the HTTP server will send to the browser as a response to the incoming CGI request. The list of supported file types is quite short, so if makefsdata complains about an unknown extension, make sure to add it (and its doctype) to the 'g_psHTTPHeaders' list.

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/httpd/httpd.c

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@file lwIP iPerf server implementation / @defgroup iperf Iperf server @ingroup apps
This is a simple performance measuring server to check your 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 / Copyright (c) 2014 Simon Goldschmidt All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR AS IS AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This file is part of the lwIP TCP/IP stack. Author: Simon Goldschmidt /
FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/lwiperf/lwiperf.c
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@file MDNS responder implementation @defgroup mdns MDNS @ingroup apps RFC 6762 - Multicast DNS
RFC 6763 - DNS-Based Service Discovery @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
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<erik@kryo.se> /

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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/mdns/mdns.c
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FILES:
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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
FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/netbiosns/netbiosns.c

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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/snmp/snmp_asn1.h

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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.

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 SharpSnmpLib (a4bd05c6afab4) (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. You'll 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 @defgroup snmp_traps Traps @ingroup snmp /

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/snmp/snmp_core.c
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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/snmp/snmpv3_mbedtls.c
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Author: Elias Oenal <lwip@eliasoenal.com> / 

FILES:
eMBEDDINGSW/THIRDPARTY/SW_SERVICES/LWIP202/SRC/LWIP-2.0.2/SRC/APPS/SNMP/SNMPV3_PRIV.H
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@ingroup apps This is simple "SNTP" client for the lwIP raw API. It is a minimal implementation of SNTPv4 as specified in RFC 4330. For a list of some public NTP servers, see this link : http://support.ntp.org/bin/view/Servers/NTPPoolServers

@todo: - set/change servers at runtime - complete SNTP_CHECK_RESPONSE checks 3
and 4 /

FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/apps/sntp/sntp.c
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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 htonl() and htonl(), you should `\define` LWIP_DONT_PROVIDE_BYTEORDER_FUNCTIONS to prevent lwIP from defining htonl/ntohl compatibility macros. `@defgroup sys_nonstandard Non-standard functions @ingroup sys_layer lwIP provides default implementations for non-standard functions. These can be mapped to OS functions to reduce code footprint if desired. All defines related to this section must not be placed in lwipopts.h, but in arch/cc.h! These options cannot be `\defined` in lwipopts.h since they are not options of lwIP itself, but options of the lwIP port to your system. / Copyright (c) 2001-2004 Swedish Institute of Computer Science. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This file is part of the lwIP TCP/IP stack. Author: Simon Goldschmidt / FILES: embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/def.c`
IP address. It maintains a list of resolved hostnames that can be queried with
the dns_lookup() function. New hostnames can be resolved using the dns_query()
function. The lwIP version of the resolver also adds a non-blocking version of
gethostbyname() that will work with a raw API application. This function checks
for an IP address string first and converts it if it is valid. gethostbyname()
then does a dns_lookup() to see if the name is already in the table. If so, the
IP is returned. If not, a query is issued and the function returns with a
ERR_INPROGRESS status. The app using the dns client must then go into a waiting
state. Once a hostname has been resolved (or found to be non-existent), the
resolver code calls a specified callback function (which must be implemented by
the module that uses the resolver). Multicast DNS queries are supported for
names ending on ".local". However, only "One-Shot Multicast DNS Queries" are
supported (RFC 6762 chapter 5.1), this is not a fully compliant implementation
of continuous mDNS querying! All functions must be called from TCPIP thread.
@see @ref netconn_common for thread-safe access. / Port to lwIP from uIP by Jim
Pettinato April 2007 security fixes and more by Simon Goldschmidt uIP version
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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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--------------------------------------------------------------------------------
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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 "lwipools.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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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.
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@file lwIP network interface abstraction
@defgroup netif Network interface (NETIF)
@ingroup netif_api

@ingroup netif
@defgroup netif_ip4 IPv4 address handling
@ingroup netif_ip6 IPv6 address handling
@ingroup 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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embededsw/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 pbuf

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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 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> /
@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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FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/sys.c

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@file Transmission Control Protocol for IP See also @ref tcp_raw @defgroup tcp_raw TCP @ingroup callbackstyle_api Transmission Control Protocol for IP
@see @ref raw_api and @ref netconn Common functions for the TCP implementation, such as functions for manipulating the data structures and the TCP timer functions. TCP functions related to input and output is found in tcp_in.c and tcp_out.c respectively.

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

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@file User Datagram Protocol module
The code for the User Datagram Protocol UDP & UDPLite (RFC 3828).
See also @ref udp_raw @defgroup udp_raw UDP @ingroup callbackstyle_api User Datagram Protocol module
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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 LWIPAUTOIP 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:
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@file Dynamic Host Configuration Protocol client @defgroup dhcp4 DHCPv4 @ingroup 
ip4 DHCP (IPv4) related functions This is a DHCP client for the lwIP TCP/IP 
stack. It aims to conform with RFC 2131 and RFC 2132. @todo: - Support for 
interfaces other than Ethernet (SLIP, PPP, ...) Options: @ref 
DHCP_COARSE_TIMER_SECS (recommended 60 which is a minute) @ref 
DHCP_FINE_TIMER_MSECS (recommended 500 which equals TCP coarse timer) 
dhcp_start() starts a DHCP client instance which configures the interface by 
obtaining an IP address lease and maintaining it. Use dhcp_release() to end the 
lease and use dhcp_stop() to remove the DHCP client. @see netifapi_dhcp4 /
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@file IGMP - Internet Group Management Protocol @defgroup igmp IGMP @ingroup ip4
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code. Note 1) Although the rfc requires V1 AND V2 capability we will only
support v2 since now V1 is very old (August 1989) V1 can be added if required a
debug print and statistic have been implemented to show this up. Note 2) A query
for a specific group address (as opposed to ALLHOSTS) has now been implemented
as I am unsure if it is required a debug print and statistic have been
implemented to show this up. Note 3) The router alert rfc 2113 is implemented in
outgoing packets but not checked rigorously incoming Steve Reynolds RFC 988 -
Host extensions for IP multicasting - V0 RFC 1054 - Host extensions for IP
multicasting RFC 1112 - Host extensions for IP multicasting - V1 RFC 2236 -
Internet Group Management Protocol, Version 2 - V2 <- this code is based on this
RFC (it's the "de facto" standard) RFC 3376 - Internet Group Management
Version 3... - V3+ RFC 2113 - IP Router Alert Option

Includes
FILES:
embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv4/igmp.c
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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/core/ipv6/dhcp6.c
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embeddedsw/ThirdParty/sw_services/lwip202/src/lwip-2.0.2/src/include/lwip/ethip6.h

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1) For NO_SYS0, an RX thread can be used which blocks on sio_read() until data is received.
2) In your main loop, call slipif_poll() to check for new RX bytes, completed packets are fed into netif->input().
3) Call slipif_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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authentication styles. Note that support of MD5-Challenge is a requirement of
RFC 2284, and that it's essentially just a reimplementation of regular RFC 1994
CHAP using EAP messages. As an authenticator ("server"), there are multiple
phases for each style. In the first phase of each style, the unauthenticated
peer name is queried using the EAP Identity request type. If the "remotename"
option is used, then this phase is skipped, because the peer's name is presumed
to be known. For MD5-Challenge, there are two phases, and the second phase
consists of sending the challenge itself and handling the associated response.
For SRP-SHA1, there are four phases. The second sends 's', 'N', and 'g'. The
reply contains 'A'. The third sends 'B', and the reply contains 'M1'. The forth
sends the 'M2' value. As an authenticatee ("client"), there's just a single
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Van Jacobson (van@helios.ee.lbl.gov), Dec 31, 1989: Initial distribution.
Modified June 1993 by Paul Mackerras, paulus@cs.anu.edu.au, so that the entire packet being decompressed doesn't have to be in contiguous memory (just the compressed header). Modified March 1998 by Guy Lancaster, glanca@gesn.com, for a 16 bit processor. /

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

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FILE NAME: sh_mem.c
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DESCRIPTION: Source file for fixed buffer size memory management service. Currently it is only being used to manage shared memory.

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FILES:
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/include/openamp/virtio_ring.h

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DESCRIPTION This file is the Implementation of IPC hardware layer interface for Xilinx Zynq UltraScale+ MPSoC system.

FILES:
embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/remoteproc/drivers/linux_remoteproc.c
eMBEDDedsW/ThirdParty/sw_services/openamp/src/open-amp/lib/remoteproc/drivers/zynqmp_remoteproc_r5.c
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embeddedsw/ThirdParty/sw_services/openamp/src/open-amp/lib/rpmsg/remote_device.c
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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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------ -------- X.XX XX YY/MM/DD 1.00 RHe 16/06/20 Initial release. </pre>
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embeddedsw/XilinxProcessorIPLib/drivers/dprxss/examples/src/dats_dp14/ti_lmk03318.c
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FILES:
embeddedsw/XilinxProcessorIPLib/drivers/hdcp22_common/src/bigdigits.h
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/hdcp_key_utility/bigdigits.h
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FILEs:
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FILEs:
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@note - The example is tested on ML403 and ML507 evaluation boards. The push buttons SW3, SW4, SW5 and SW7 on the ML403 evaluation board are used in the example for the key action of the USB keyboard. The push buttons SW10, SW11, SW12, SW13 and SW14 are used on the ML507 board. The example sends a character from a fixed sequence of characters from the device as and when any of the SW3 or SW4 or SW5 and SW7 push button is pressed. The fixed sequence of characters is XILINX USB KEYBOARD DEMO. The SW6 push button switch is used to complete the test. SW14 is used on ML507 board to complete the test. - The GPIO device has to be added to the hardware design so that the push buttons on the evaluation board could be used. If we enable the debug statements in the xusb_cp9.c file, we must
add the UARTLite core to the hardware design. Debug messages can be enabled by
defining the constant XUSB_DEBUG. To run this example, the evaluation board is
to be connected to a windows Host PC over the USB port. The example configures
the USB device for endpoint 0 and endpoint 1. Endpoint 0 is the control endpoint
and is configured for a maximum packet length of 64 bytes. End point 1 is
configured for INTERRUPT IN transactions and the maximum packet size is
configured as 16 bytes. The USB keyboard example code has to be compiled along
with the xusb_cp9.c file. The xusb_cp9.c file contains all the USB enumeration
related functions. To compile the code for USB keyboard example, the constant
definitions HID_DEVICES and USB_KEYBOARD are to be defined and the definitions
the constants USB_MOUSE and MASS_STORAGEDEVICE are to be undefined. These
definitions can be found in the xusb_types.h file. <pre>
MODIFICATION HISTORY:
Ver Who Date Changes ----- ---- 1.00a hvm 5/31/07 First release 3.00a hvm
11/18/09 Updated to use HAL processor APIs. XUsb_mReadReg is renamed to
XUsb_ReadReg and XUsb_mWriteReg is renamed to XUsb_WriteReg. 4.00a hvm 08/11/11
Updated the code in gpio isr to increment the index by 4 as a dummy byte is
added in the Message variable in keyboard.h file to handle the address alignment
issue. 4.02a bss 11/01/11 Modified UsbIfIntrHandler function to unconditionally
reset when USB reset is asserted (CR 627574). </pre>
FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_keyboard.c
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</pre> /

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FILES:
embeddedsw/XilinuxProcessorIPLib/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: 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.
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embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_storage.c

Open Source Used In IOS XR 700 7.0.0
This file contains the constants, type definitions, variables and function prototypes used in the mass storage application.

**Modification History:**

- **1.00a hvm 2/12/07 First release**
- **1.01a hvm 10/2/08 The variables IntLba in Lba and IntBlockCount in BlockCount are declared as volatile.**
- **2.00a hvm 03/12/09 Modified the RAMDISKSECTORS constant value from 0x4000 to 0x400 as this would reduce the code size and the example can run in a smaller memory systems.**
- **3.02a hvm 08/16/10 Updated with the little endian support changes.**
- **4.00a hvm 10/25/10 Updated with DmaIntrHandler function prototype. Updated INQUIRY command with pad values.**
- **4.00a hvm 06/01/11 Modified the USB Mass Storage Command Status Wrapper structure. The union for Signature is removed and only the array definition of Signature is retained.**
- **CR611761 fix. 4.00a hvm 06/24/11 Updated the INQUIRY command fourth parameter value to 0.**
- **CR614794 4.01a hvm 08/11/11 Updated the RamDisk variable to have a 32 bit address alignment.**
- **4.01a hvm 09/14/11 Fixed**
the compilation issue at the RamDisk variable declaration. CR625055. </pre> /

FILES:
embeddedsw/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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ALL TIMES. @file xusb_types.h This file contains the constants, type
definitions, variables as used in the USB chapter 9 and mass storage demo
application. @note None. <pre> MODIFICATION HISTORY: Ver Who Date Changes -----
---- 1.00a hvm 2/22/07 First release 4.00a hvm 12/20/10 Updated with the Audio
device definitions. </pre> /
FILES:
embeddedsw/XilinxProcessorIPLib/drivers/usb/examples/xusb_types.h
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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>

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

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to applicable laws and regulations governing limitations on product liability.

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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.
support for static interrupt handlers from the MDD file 1.01a hvm 10/02/08 The Buffer0Ready, Buffer1Ready are declared as volatile. In function XUsb_EpDataRecv, the initialization of Buffer0Ready, Buffer1Ready and CurBufNum variables is moved before the buffer ready bit is set in the buffer ready register. Added the initialization of Buffer0Ready, Buffer1Ready and CurBufNum variables in the XUsb_EpDataSend function. 2.00a hvm 10/22/08 Added Support for the new XPS USB device. The new device has support for DMA. Apart from the DMA, remote wakeup feature is also added the USB device. However, there is no additional code needed to be added in the driver to support this feature. 3.00a hvm 12/03/09 Added the modifications related to the new USB error reporting register in the XPS USB device. Updated to use HAL processor APIs. Removed _m from the name of the macros. XUsb_mReadReg is renamed to XUsb_ReadReg and XUsb_mWriteReg is renamed to XUsb_WriteReg. 3.01a hvm 5/20/10 Updated with fix for CR561171. The interrupt handler is updated to call the error handler callback function during error interrupts. 3.02a hvm 7/15/10 Added Device ID initialization in XUsb_CfgInitialize function (CR555996). 3.02a hvm 8/5/10 Updated the XUsb_EpDataRecv function to ensure that the buffer ready bit setup is now made only during non-DMA case. CR570776. 3.02a hvm 8/16/10 Updated the examples with the little endian support. 4.00a hvm 10/21/10 Added new API XUsb_DmaIntrSetHandler for setting up DMA handler. Updated the XUsb_IntrHandler function to call the DMA handler to handle DMA events. Removed DmaDone and DmaError variables from the XUsb structure. Added two new APIs to provide access to the new ULPI PHY register. 4.01a hvm 8/23/11 Added new bit definitions for isochronous transfer bits in endpoint configuration register. Added a new API for setting these bits for a given endpoint. These bits are available only in the newer versions of the AXI USB IP. Check the IP datasheet for more details. 4.02a bss 3/04/12 Modified XCOMPONENT_IS_READY to XIL_COMPONENT_IS_READY CR 650877 4.03a bss 06/20/10 Added SIE Reset API to reset (XUsb_SieReset) the SIE state machine in xusb.c and SIE Reset Mask in xusb_l.h for CR 660602 4.04a bss 10/22/13 Added macros for HSIC PHY registers in xusb_l.h. 5.0 adk 19/12/13 Updated as per the New Tcl API's 5.1 sk 11/10/15 Used UINTPTR instead of u32 for Baseaddress CR 867425. Changed the prototype of XUsb_CfgInitialize API. 5.2 MNK 29/03/15 Added 64bit changes for ZYNQMP. ms 03/17/17 Modified text file in examples folder for doxygen generation. </pre> /

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

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This file contains the USB end point related function definitions. 

**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.
  - 4.01a hvm 8/23/11 Added an API to set the number of isochronous transfers in a microframe for a given endpoint.

**Possible Notice(S):** [EPL-1.0]
This file contains a configuration table that specifies the configuration of the USB devices in the system. 

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 register offset values as per the new USB device datasheet. Added new bitmasks related to DMA operation as defined in the datasheet. 3.00a hvm 10/28/09 Updated the new USB error register related constants 3.00a hvm 11/18/09 Updated to use HAL processor APIs. XUsb_mReadReg is renamed to XUsb_ReadReg and XUsb_mWriteReg is renamed to XUsb_WriteReg. Updated the new USB error register related constants. 4.00a hvm 10/21/10 Updated the ULPI PHY and interrupt register related constants. 4.01a hvm 08/23/11 Updated with High bandwidth Isochronous bit definitions 4.03a bss 06/20/10 Added SIE Reset Mask (CR 660602) 4.04a bss 10/22/13 Added macros for HSIC PHY registers. </pre>

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embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/data/v_hdmirxss.mdd
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embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmi_example/aes256.c
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmi_example/aes256.h
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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:
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Implementation of the SHA-256 hashing algorithm. SHA-256 is one of the three
algorithms in the SHA2 specification. The others, SHA-384 and SHA-512, are not
offered in this implementation. Algorithm specification can be found here:
This implementation uses little endian byte order. HEADER FILES /

FILES:
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmirxss/examples/xhdmie_example/sha256.c
embeddedsw/XilinxProcessorIPLib/drivers/v_hdmitxss/examples/xhdmie_example/sha256.c
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Filename: sha256.h Author: Brad Conte (brad AT bradconte.com) Copyright:
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/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
18/02/08 Converted math.h functions (e.g. ceil) to standard functions </pre>

FILES:
embeddedsw/XilinxProcessorILib/drivers/v_hdmirxss/examples/xhdmif_example/idt_8t49n24x.h
embeddedsw/XilinxProcessorILib/drivers/v_hdmitxss/examples/xhdmif_example/idt_8t49n24x.h
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FILES:
embeddedsw/XilinxProcessorIPLib/drivers/video_common/src/xvidc_parse_edid.c

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for the SD-FEC. Example The processor based example design output by the SD-FEC IP instance also includes an example application demonstrating a basic use case of the software driver. / 

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

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FILES:
embeddedsw/lib/hsp/standalone/src/arm/cortexa53/64bit/xpvxenconsole/arm64_ops.h
embeddedsw/lib/hsp/standalone/src/arm/cortexa53/64bit/xpvxenconsole/hypercall.h
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Grzegorz Milos Changes: Date: Mar 2006 Environment: Xen Minimal OS Description:
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embeddedsw/lib/bsp/standalone/src/arm/cortexa53/64bit/xpvxenconsole/xen_console.c

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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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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 APUs 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 APUs | 0x2004 - 0x2007 |
number of RPU to APUs buffers consumed by APUs | 0x2008 - 0x3FFC | address
array for shared buffers from RPU to APUs | 0x04000 - 0x103FFC | APUs to RPU buffers |
0x104000 - 0x203FFC | RPU to APUs 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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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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is the remote side of the shared memory throughput demo. This demo does the
following steps: 1. Get the shared memory device libmetal I/O region. 1. Get the
TTC timer device libmetal I/O region. 2. Get IPI device libmetal I/O region and
the IPI interrupt vector. 3. Register IPI interrupt handler. 6. Download
throughput measurement: Start TTC RPU counter, wait for IPI kick, check if data
is available, if yes, read as much data as possible from shared memory. It will
iterates untill 1000 packages have been received, stop TTC RPU counter and kick
IPI to notify the remote. Repeat for different package size. 7. Upload
throughput measurement: Start TTC RPU counter, write data to shared memory and kick IPI to notify remote. It will iterate for 1000 times, stop TTC RPU counter. wait for APU IPI kick to know APU has finished receiving packages. Kick IPI to notify it TTC RPU counter value is ready to read. Repeat for different package size. 8. Cleanup resource: disable IPI interrupt and deregister the IPI interrupt handler. Here is the Shared memory structure of this demo: |0x0 - 0x03 | number of APU to RPU buffers available to RPU | |0x04 - 0xFFFFFFFF | address array for shared buffers from APU to RPU | |0x200000 - 0x200004 | number of RPU to APU buffers available to APU | |0x200000 - 0x3FFFFFFFF | address array for shared buffers from RPU to APU | |0x400000 - 0x7FFFFFF | RPU to APU buffers | |0x800000 - 0xAFFFFF | APU to RPU 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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<REGISTER> Register within the current module [_<FIELD>] Bit field within a 
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the field WIDTH: Size of field in bites MASK: A masking over a range of bits or 
a bit to be used for setting or clearing / 

FILES: 
eMBEDDEDSW/LIB/SW_APPS/ZYNQMP_DRAM_TEST/SRC/DDR_PHY.H 
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FILES:
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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_info.c
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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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 populates resource table
for BM remote for use by the Linux Master /

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
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
embeddedsw/lib/sw_apps/openamp_rpc_demo/src/machine/zynq7/rsc_table.h
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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FILES:
embeddedsw/lib/sw_apps/openamp_echo_test/src/system/freertos/echo_test.c
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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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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 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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application that showcases usage of remoteproc and rpmsg APIs on the remote
core. 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
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remote processor, the following steps are performed: 1. The master application
sends an application-specific shutdown message to the remote context 2. This
bare-metal application cleans up application resources, sends a shutdown
acknowledge to master, and invokes remoteproc_resource_deinit API to de-
initialize remoteproc on the bare-metal side. 3. On receiving the shutdown
acknowledge message, the master application invokes the remoteproc_shutdown API
to shut down the remote processor and de-initialize remoteproc using
remoteproc_deinit on its side.

FILES:
embeddedsw/lib/sw_apps/openamp_matrix_multiply/src/system/generic/matrix_multiply.c

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This is a sample demonstration application that showcases usage of proxy from the remote core. This application is meant to run on the remote CPU running FreeRTOS. It can print to master console and perform file I/O using proxy mechanism. The init_system is called from main function which defines a shared memory region in MPU settings for the communication between master and remote using zynqMP_r5_map_mem_region API, it also initializes interrupt controller GIC and register the interrupt service routine for IPI using zynqMP_r5_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, this application will use the console to display print statements and execute file I/O on master by communicating with a proxy application running on the Linux master. Once the application is ran and task by the FreeRTOS
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.

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details. You should have received a copy of the GNU General Public License along
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This file can be included in FSBL code to get prototype of ps7_init() function
and error codes

FILES:
embeddedsw/lib/sw_apps/zynq_fsbl/misc/microzed/ps7_init_gpl.h

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This file is automatically generated

FILES:
embeddedsw/lib/sw_apps/zynq_fsbl/misc/zc702/ps7_init_gpl.c

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This file can be included in FSBL code to get prototype of ps7_init() function and error codes

FILES:
embeddedsw/lib/sw_apps/zynq_fsbl/misc/zc702/ps7_init_gpl.h

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This file can be included in FSBL code to get prototype of ps7_init() function
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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

<note>
Include Files
</note>

FILES:

embeddedsw/lib/sw_apps/zynq_fsbl/src/md5.c

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embeddedsw/lib/sw_services/xilffs/src/cc932.c

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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_montdrv() 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 multitask operation. Added auto cluster size selection to f_mkfs(). Added rewind option to f_readdir(). Changed result
code of critical errors. Renamed string functions to avoid name collision. Apr 14, '09 R0.07a Separated out OS dependent code on reentrant cfg. Added multiple sector size feature. Jun 21, '09 R0.07c Fixed f_unlink() can return FR_OK on error. Fixed wrong cache control in f_lseek(). Added relative path feature. Added f_chdir() and f_chdrive(). Added proper case conversion to extended character. Nov 03, '09 R0.07e Separated out configuration options from ff.h to ffconf.h. Fixed f_unlink() fails to remove a sub-directory on _FS_RPATH. Fixed name matching error on the 13 character boundary. Added a configuration option, _LFN_UNICODE. Changed f_readdir() to return the SFN with always upper case on non-LFN cfg. May 15, '10 R0.08 Added a memory configuration option. (_USE_LFN 3) Added file lock feature. (_FS_SHARE) Added fast seek feature. (_USE_FASTSEEK) Changed some types on the API, XCHAR->TCHAR. Changed .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_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

FILES:
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1.380 pseudo 1.8.2-r0

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1.383 pulseaudio 10.0-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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1.392 python-ipaddress 1.0.18-r0

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1.393 python-iso8601 0.1.12-r0

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1.396 python-markupsafe 1.0

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1.397 python-native 2.7.13

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

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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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
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
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MD5 message digest algorithm
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

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The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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-----------------------------

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

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1.398 python-ndg-httpsclient 0.4.3-r0

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1.399 python-nose 1.3.7-r0

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1.400 python-numpy 1.13.1-r0

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pycparser -- A C parser in Python

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1.413 python-twitter 3.4.0-r0

1.414 python-urllib3 1.22-r0

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * 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

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluvyer.me.uk>
  * Python 3 support

* Brandon Rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* Hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage
* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacababababaca@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 vending

* [Your name or handle] [<email or website>]
  * [Brief summary of your changes]

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1.415 python-werkzeug 0.10.4-r0

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1.417 python3-cython-native 0.27.1-r0

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1.419 python3-git 2.1.5-r0

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1.420 python3-gitdb 0.6.4-r0

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1.421 python3-iniparse-native 0.4-r0

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a
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--------------
The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

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

Before using, initialize the state by using init_genrand(seed)
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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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 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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Select kqueue
-------------

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---------

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

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

strtod and dtoa
----------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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cfuhash

-------

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1.424 python3-pygobject 3.24.1-r0

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1.425 python3-pyserial 3.4-r0

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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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 */

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{ TARGET_FREEBSD_NR___acl aclcheck link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR___aclacldelete_fd, "__acl_acldelete_fd", "%s(%d, %d)\", NULL, NULL },
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{ TARGET_FREEBSD_NR___aclacldelete_link, "__acl_acldelete_link", "%s(\"%s\", %d)\", NULL, NULL },
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{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s(\"%s\", \%d, %\#x)\", NULL, NULL },
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{ TARGET_FREEBSD_NR___aclset_file, "__acl_set_file", "%s(\"%s\", \%d, %\#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR___aclset_link, "__acl_set_link", "%s(\"%s\", \%d, %\#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
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<td>accept system call</td>
<td>int sock, int addr, int len</td>
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<tr>
<td>access</td>
<td>access file system</td>
<td>char *path, int mode</td>
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<td>acct</td>
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<td>change root</td>
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</tr>
<tr>
<td>eaccess</td>
<td>access error</td>
<td>char *path, int mode</td>
</tr>
<tr>
<td>execve</td>
<td>execute file</td>
<td>char *path, char **argv, char **env</td>
</tr>
<tr>
<td>exit</td>
<td>exit system call</td>
<td>int status</td>
</tr>
<tr>
<td>extattrctl</td>
<td>export attribute control</td>
<td>char *path, int attr, char *attrname, int attrval, int attrvaltype, int attrtype</td>
</tr>
<tr>
<td>extattr_delete_fd</td>
<td>delete attribute</td>
<td>int fd, int attrvalue</td>
</tr>
<tr>
<td>extattr_delete_file</td>
<td>delete attribute</td>
<td>char *path, int attrvalue</td>
</tr>
<tr>
<td>extattr_delete_link</td>
<td>delete attribute</td>
<td>char *path, int attrvalue</td>
</tr>
<tr>
<td>extattr_get_fd</td>
<td>get attribute</td>
<td>int fd, int attrvalue</td>
</tr>
<tr>
<td>extattr_get_file</td>
<td>get attribute</td>
<td>char *path, int attrvalue</td>
</tr>
<tr>
<td>extattr_get_link</td>
<td>get attribute</td>
<td>char *path, int attrvalue</td>
</tr>
<tr>
<td>extattr_list_fd</td>
<td>list attributes</td>
<td>int fd, int attrvalue</td>
</tr>
<tr>
<td>extattr_list_file</td>
<td>list attributes</td>
<td>char *path, int attrvalue</td>
</tr>
<tr>
<td>extattr_list_link</td>
<td>list attributes</td>
<td>char *path, int attrvalue</td>
</tr>
<tr>
<td>extattr_set_fd</td>
<td>set attribute</td>
<td>int fd, int attrvalue</td>
</tr>
<tr>
<td>extattr_set_file</td>
<td>set attribute</td>
<td>char *path, int attrvalue</td>
</tr>
<tr>
<td>extattr_set_link</td>
<td>set attribute</td>
<td>char *path, int attrvalue</td>
</tr>
<tr>
<td>fchdir</td>
<td>change directory</td>
<td>char *newdir</td>
</tr>
<tr>
<td>fchflags</td>
<td>change file flags</td>
<td>int fd, int flags</td>
</tr>
<tr>
<td>fchmod</td>
<td>change file mode</td>
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</tr>
<tr>
<td>fchown</td>
<td>change owner</td>
<td>int fd, int uid, int gid</td>
</tr>
<tr>
<td>fcntl</td>
<td>file control</td>
<td>int fd, int cmd</td>
</tr>
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<td>fhopen</td>
<td>open file</td>
<td>char *path, int flags, char **argv, char **env</td>
</tr>
</tbody>
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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(0,0x%)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(0,"",0x", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(0,0x%)", 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(0x%)", 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", "%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", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ 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", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(0,0x%)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "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", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s("",0x", %s")", NULL, NULL },
{ TARGET_FREEBSD_NR_listener, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(0x", %d)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\",%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(\"%s\",%#o)\", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\"%s\",%#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(%#x,%#x,%d)\", NULL, NULL },
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{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\",%d)\", 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", "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", "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_socket, "socket", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", NULL, 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", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", 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_geteuid 24
#define TARGET_FREEBSD_NR_ptrace 25
#define TARGET_FREEBSD_NR_recvmsg 26
#define TARGET_FREEBSD_NR_sendmsg 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_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_setsockopt 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
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#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_sem.sysys 169
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#define TARGET_FREEBSD_NR_sh.sysys 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
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#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirent 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_getrlimit 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_ftimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NRSemop 222
#define TARGET_FREEBSD_NR_freebsd7_msgct 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgrcv 226
#define TARGET_FREEBSD_NR_msgsnd 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
#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
#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

/* 322 is obsolete thr_sleep */
/* 323 is obsolete thr_wakeup */
/* 313 is obsolete signanosleep */
/* 315 is obsolete sigevent */
/* 318 is obsolete idle */
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kidsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_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___mac_get_proc 368
#define TARGET_FREEBSD_NR___mac_set_proc 369
#define TARGET_FREEBSD_NR___mac_get_fd 370
#define TARGET_FREEBSD_NR___mac_set_fd 371
#define TARGET_FREEBSD_NR___mac_get_file 372
#define TARGET_FREEBSD_NR___mac_set_file 373
#define TARGET_FREEBSD_NR_kenv 374
#define TARGET_FREEBSD_NR_lchflags 375
#define TARGET_FREEBSD_NR_uuidgen 376
#define TARGET_FREEBSD_NR_sendfile 377
#define TARGET_FREEBSD_NR_mac_syscall 378
#define TARGET_FREEBSD_NR_getfsstat 379
#define TARGET_FREEBSD_NR_statfs 380
#define TARGET_FREEBSD_NR_fstatfs 397  
#define TARGET_FREEBSD_NR_fhstatfs 398  
#define TARGET_FREEBSD_NR_ksem_close 400  
#define TARGET_FREEBSD_NR_ksem_post 401  
#define TARGET_FREEBSD_NR_ksem_wait 402  
#define TARGET_FREEBSD_NR_ksem_trywait 403  
#define TARGET_FREEBSD_NR_ksem_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_audition 446  
#define TARGET_FREEBSD_NR_getauid 447  
#define TARGET_FREEBSD_NR_setauid 448  
#define TARGET_FREEBSD_NR_getaudit 449
#define TARGET_FREEBSD_NR_setaudit 450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditct1 453
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_faccessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_mknodat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl 510
#define TARGET_FREEBSD_NR_msgctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new 514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter 516
#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pddfork 518
#define TARGET_FREEBSD_NR_pdkill 519
#define TARGET_FREEBSD_NR_pdg getpid 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_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_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_NRDup2         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_ftruncate   201
#define TARGET_OPENBSD_NR___sysctl    202
#define TARGET_OPENBSD_NR_mlock       203
#define TARGET_OPENBSD_NR_munlock     204
#define TARGET_OPENBSD_NR_futimes     206
#define TARGET_OPENBSD_NR_getpgid     207
#define TARGET_OPENBSD_NR_xfspioctl   208
#define TARGET_OPENBSD_NR_semget      221
#define TARGET_OPENBSD_NR_msgget      225
#define TARGET_OPENBSD_NR_msgsnd      226
#define TARGET_OPENBSD_NR_msgrcv      227
#define TARGET_OPENBSD_NR_shmat       228
#define TARGET_OPENBSD_NR_shmdt       230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_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_getpeername 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_getresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR_msgctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd 304
#define TARGET_OPENBSD_NR_adjfreq 305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_statfs 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 01:33:52 jtc Exp $   */
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#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 TARGETEFAULT  14  /* Bad address */
#define TARGET_ENOTBLK 15  /* Block device required */
#define TARGET_EBUSY  16  /* Device busy */
#define TARGET_EEXIST  17  /* File exists */
#define TARGET_EXDEV  18  /* Cross-device link */
#define TARGET_ENODEV  19  /* Operation not supported by device */
#define TARGET_ENOTDIR  20  /* Not a directory */
#define TARGET_EISDIR  21  /* Is a directory */
#define TARGET EINVAL  22  /* Invalid argument */
#define TARGET_ENFILE  23  /* Too many open files in system */
#define TARGET_EMFILE  24  /* Too many open files */
#define TARGET_ENOTTY  25  /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY  26  /* Text file busy */
#define TARGET_EFBIG  27  /* File too large */
#define TARGET_ENOSPC  28  /* No space left on device */
#define TARGET_ESPIPE  29  /* Illegal seek */
#define TARGET_EROFS  30  /* Read-only file system */
#define TARGET_EMLINK  31  /* Too many links */
#define TARGET_EPIPE  32  /* Broken pipe */

    /* math software */
#define TARGET_EDOM  33  /* Numerical argument out of domain */
#define TARGET_ERANGE  34  /* Result too large */

    /* non-blocking and interrupt i/o */
#define TARGET_EAGAIN  35  /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK  EAGAIN  /* Operation would block */
#define TARGET_EINPROGRESS  36  /* Operation now in progress */
#define TARGET_EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39 /* Destination address required */
#define TARGET_EMSSIZE 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_ENOTCONNSHUTDOWN 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_EREMOTE 71 /* Too many levels of remote in path */
#define TARGET_EBADRPC 72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */

#define TARGET_ENOLCK 77 /* No locks available */
#define TARGET_ENOSYS 78 /* Function not implemented */

#define TARGET_EFTYPE 79 /* Inappropriate file type or format */
#define TARGET_EAUTH 80 /* Authentication error */
#define TARGET_ENEEDAUTH 81 /* Need authenticator */
#define TARGET_EIPSEC 82 /* IPsec processing failure */
#define TARGET_ENOATTR 83 /* Attribute not found */
#define TARGET_EILSEQ 84 /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85 /* No medium found */
#define TARGET_EMEDIUMTYPE 86 /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87 /* Conversion overflow */
#define TARGET_ECANCELED 88 /* Operation canceled */
#define TARGET_EIDRM 89 /* Identifier removed */
#define TARGET_ENOMSG 90 /* No message of desired type */
#define TARGET_ELAST 90 /* Must be equal largest errno */

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/*      @(#)mman.h      8.2 (Berkeley) 1/9/95
*/

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* paging region, no sync to 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 */
```c
#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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```
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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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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
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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.

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

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

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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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Stefan Reinauer

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ifndef TOP
    TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif

include $(TOP)/make.rules

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

all :
    for subdir in $(SUBDIRS) ; do $(MAKE) -C $${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 @@
        if (DEBUG_TRACE()) {
        x86emu_dump_regs();
+        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+            x86emu_dump_xregs();
        } else {
+            x86emu_dump_regs();
        }
    }
    if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
        printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
for (i=0; i< M.x86.enc_pos; i++)
{
static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops2.c	20 Mar 2008 15:48:34 -0001.3
@@ -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\r");
    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 @@
imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSH\t%d\n", imm);
    TRACE_AND_STEP();
-    push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}@@ -1256,8 +1260,10 @@
target = (u16)(M.x86.R_IP + (s16)offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
M.x86.R_IP = target;
+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. */

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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_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);
        if (M.x86.mode & SYSMODE_PREFIX_REPNE)
            break;
        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)) {
        /* 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) {
        + 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. */
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
    @@ -2783,9 +2812,11 @@
        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;
        } else {
            M.x86.R_ECX = 0;
            M.x86.R_CX = 0;
        }
        while (count--) {
            store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
        }
        M.x86.R_DI += inc;
        if (M.x86.intr & INTR_HALTED)
            break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
    @@ -2795,6 +2826,8 @@
        inc = 1;
        if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
            /* dont care whether REPE or REPNE */
/* 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.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX -= 1;
    else
        M.x86.R_CX -= 1;
    M.x86.R_SI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

/* dont care whether REPE or REPNE */
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* move them until CX is ZERO. */
    count = M.x86.R_CX;
    while (count--)
        M.x86.R_SI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}

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;
}
DECODECLEARSEGOVR();
ENDOFINSTR();

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_REPE;
} else {
@@ -2951,8 +3003,8 @@
 TRACE_AND_STEP();
 if (M.x86.mode & SYSMODE_PREFIX_REPE) {
 /* REPE */
 - /* move them until CX is ZERO. */
 - while (M.x86.R_CX != 0) {
 + /* move them until (E)CX is ZERO. */
 + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
 if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_long(M.x86.R_EAX, val);
@@ -2960,16 +3012,21 @@
        val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_word(M.x86.R_AX, (u16)val);
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF) == 0)
    break;
+            if (M.x86.intr & INTR_HALTED)
+                break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX, val);
        } else {
            M.x86.R_CX -= 1;
        }
    }
    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 {
    @@ -2977,10 +3034,15 @@ @
        val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_word(M.x86.R_AX, (u16)val);
    }
-    M.x86.R_CX -= 1;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF))
    break;  /* zero flag set means equal */
+            if (M.x86.intr & INTR_HALTED)
+                break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else {
    @@ -3238,9 +3300,9 @@
        DECODE_PRINTF("RET\t");
        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\t");
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\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();
@@ @ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ 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;
+JMPTTRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+ }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
DECODE_PRINTF2("%04x", 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", 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", 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 & SYSMODE_PREFIX_DATA) ?
-        /* in until (E)CX is ZERO. */
+        /* 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;
        }
    }
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* out until CX is ZERO. */
-     /* out until (E)CX is ZERO. */
+     u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+         /* out until (E)CX is ZERO. */
     u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
M.x86.R_ECX : M.x86.R_CX);
     while (count--) {
         single_out(size);
         M.x86.R_SI += inc;
     }
     M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
-     if (M.x86.mode & SYSMODE_32BIT_REP) {
M.x86.R_ECX = 0;
    }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
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

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
    DB(if (DEBUG_IO_TRACE())
        printk("inb %#04x \n", addr);
    -return inb(addr);
return 0;
}

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

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

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

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

@@ -295,6 +288,5 @@

    }

@@ -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 @@
#define __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H
-#define DEBUG 0
-#undef DEBUG
*/
/*---------------------- Macros and type definitions ----------------------*/
/* 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)
@ @ -96,8 +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);
+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 RETURN_TRACE(u,v,w,x,s)
+# 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
#define SYSMODE_INTR_PENDING    0x10000000
#define SYSMODE_EXTRN_INTR      0x20000000
#define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
SYSMODE_SEGOVR_GS      | \
SYSMODE_SEGOVR_SS      | \
SYSMODE_PREFIX_DATA    | 
-  SYSMODE_PREFIX_ADDR)
+  SYSMODE_PREFIX_ADDR    | 
+  SYSMODE_32BIT_REP)
#define  INTR_SYNCH           0x1
#define  INTR_ASYNCH          0x2
@@ -274,9 +278,9 @@
*/

u32                         mode;
volatile int    intr;  /* mask of pending interrupts */
-int    debug;
+ volatile int    debug;
#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 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+##include <stdio.h>
#define printk printf
#endif
@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
#define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)
void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#endif __cplusplus
}                       /* End of "C" linkage for C++ */
#endif
-#endif /* __X86EMU_X86EMU_H */
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# *
# * Contributors:
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# * Contributors:

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

ROOTDIR ?= ../..

LDFLAGS= 
ASFLAGS= -I./include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS= -UDEBUG -m64 -I. -I./include -I./include/x86emu \ 
-Is(TOP)/clients/net-snk/include -Is(ROOTDIR)/include \ 
-Is(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) *.*.*.i.*.s libx86emu.a

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

#set -x
#set -e

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check whether 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 directory..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff
echo "done"
exit 0

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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007
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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
#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
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#define TARGET_NETBSD_NR_compat_40_mount     21
#define TARGET_NETBSD_NR_unmount        22
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#define TARGET_NETBSD_NR_geteuid 25
#define TARGET_NETBSD_NR_ptrace 26
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#define TARGET_NETBSD_NR_sendmsg 28
#define TARGET_NETBSD_NR_recvfrom 29
#define TARGET_NETBSD_NR_accept 30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
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#define TARGET_NETBSD_NR_compat_43_lstat43 40
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#define TARGET_NETBSD_NR_getegid 43
#define TARGET_NETBSD_NR_profil 44
#define TARGET_NETBSD_NR_ktrace 45
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#define TARGET_NETBSD_NR_compat_13_sigprocmask13 48
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#define TARGET_NETBSD_NR_execve 59
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#define TARGET_NETBSD_NR_compat_43_fstat43 62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo 63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize 64
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#define TARGET_NETBSD_NR_compat_43_osetrlimit 145
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#define TARGET_NETBSD_NR_setsid 147
#define TARGET_NETBSD_NR_quotactl 148
#define TARGET_NETBSD_NR_compat_43_0quota 149
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#define TARGET_NETBSD_NR_pset_bind 415
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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 },
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{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink 10
#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
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NRUnmount 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_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_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_msgssys 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_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirent 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmat 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
/* 322 is obsolete thr_sleep */
/* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigtreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 364
#define TARGET_FREEBSD_NR_extattr_get_fd 365
#define TARGET_FREEBSD_NR_extattr_delete_fd 366
#define TARGET_FREEBSD_NR___setugid 367
#define TARGET_FREEBSD_NR_eaccess 368
#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___setugid 375
#define TARGET_FREEBSD_NR_kenv 376
#define TARGET_FREEBSD_NR_lchflags 377
#define TARGET_FREEBSD_NR_uuidgen 378
#define TARGET_FREEBSD_NR_getresuid 379
#define TARGET_FREEBSD_NR_getresgid 380
#define TARGET_FREEBSD_NR_fhstatfs 381
#define TARGET_FREEBSD_NR___ksem_close 382
#define TARGET_FREEBSD_NR___ksem_post 383
#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_audit 445  
#define TARGET_FREEBSD_NR_auditon 446  
#define TARGET_FREEBSD_NR_getauid 447  
#define TARGET_FREEBSD_NR_setauid 448  
#define TARGET_FREEBSD_NR_getaudit 449  
#define TARGET_FREEBSD_NR_setaudit 450  
#define TARGET_FREEBSD_NR_getaudit_addr 451  
#define TARGET_FREEBSD_NR_setaudit_addr 452  
#define TARGET_FREEBSD_NR_auditctl 453
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_thr_truncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_facessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_mknodat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_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_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_pfdfork    518
#define TARGET_FREEBSD_NR_pdfork    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_posix_fallocate 530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL    532

/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $ */

/* System call numbers. *

* created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp */

#define TARGET_OPENBSD_NR_syscall     0
#define TARGET_OPENBSD_NR_exit        1
#define TARGET_OPENBSD_NR_fork        2
#define TARGET_OPENBSD_NR_read        3
#define TARGET_OPENBSD_NR_write       4
#define TARGET_OPENBSD_NR_open        5
#define TARGET_OPENBSD_NR_close       6
#define TARGET_OPENBSD_NR_wait4       7
#define TARGET_OPENBSD_NR_link        9
#define TARGET_OPENBSD_NR_unlink      10
#define TARGET_OPENBSD_NR_mkdir       11
#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_getpwnam 18
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NR_setuid 23
#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockopt 32
#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 38
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_profil 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin 50
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_sigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 66
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_munmap 73
#define TARGET_OPENBSD_NR_mprotect 74
#define TARGET_OPENBSD_NR_madvise 75
#define TARGET_OPENBSD_NR_mincore 78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_getpgpr 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_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR___syscall 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfsioctl 208
#define TARGET_OPENBSD_NR_semget 221
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#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
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#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
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#define TARGET_OPENBSD_NR_setrlimit 289
#define TARGET_OPENBSD_NR_getpriority 290
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#define TARGET_OPENBSD_NR_utsname 293
#define TARGET_OPENBSD_NR_settimeofday 294
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#define TARGET_OPENBSD_NR_setsockopt 307
#define TARGET_OPENBSD_NR_getsockopt 308
#define TARGET_OPENBSD_NR_setsockopt 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_ENOEXEC 17 /* File exists */
#define TARGET_LEDEADLK 22 /* Cross-device link */
#define TARGET_ENODEV 18 /* Operation not supported by device */
#define TARGET_ENOTDIR 19 /* Not a directory */
#define TARGET_EEXIST 21 /* Is a directory */
#define TARGET_EINVAL 20 /* Invalid argument */
#define TARGET_ENFILE 22 /* Too many open files in system */
#define TARGET_EMFILE 23 /* Too many open files */
#define TARGET_ENOTTY 24 /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY 25 /* Text file busy */
#define TARGET_EFBIG 26 /* File too large */
#define TARGET_ENOSPC 27 /* File too large */
#define TARGET_ESPIPE 28 /* No space left on device */
#define TARGET_ESPIE 29 /* Illegal seek */
#define TARGET_EOF 30 /* Read-only file system */
#define TARGET_EMLINK 31 /* Too many links */
#define TARGET_E管道 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_EMMSIZE 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_ENOTCONN 58 /* Can't send after socket shutdown */
#define TARGET_EHOSTDOWN 59 /* Too many references: can't splice */
#define TARGET_EHOSTUNREACH 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_EREMOTE 71 /* Too many levels of remote in path */
#define TARGET_EBADRPC 72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */
#define TARGET_ENOLCK 77 /* No locks available */
#define TARGET_ENOSYS 78 /* Function not implemented */
#define TARGET_EFTYPE 79 /* Inappropriate file type or format */
#define TARGET_EAUTH 80 /* Authentication error */
#define TARGET_ENEEDAUTH 81 /* Need authenticator */
#define TARGET_EIPSEC 82 /* IPSec processing failure */
#define TARGET_ENOATTR 83 /* Attribute not found */
#define TARGET_EILSEQ 84 /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85 /* No medium found */
#define TARGET_EMEDIUMTYPE 86 /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87 /* Conversion overflow */
#define TARGET_ECANCELED 88 /* Operation canceled */
#define TARGET_EIDRM 89 /* Identifier removed */
#define TARGET_ENOMSG 90 /* No message of desired type */
#define TARGET_ELAST 90 /* Must be equal largest errno */

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*
* @(#)/mman.h 8.2 (Berkeley) 1/9/95
*/
#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */
#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7


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 *
 * @(#)mman.h 8.2 (Berkeley) 1/9/95 */

#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */
#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */
#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7
/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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*
* @(#)mman.h 8.1 (Berkeley) 6/2/93
*/

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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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2.7 2.6 2010 PSF yes

Footnotes:

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/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
 * System call numbers.
 *
 * created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
 */
#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#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_unmount 22
#define TARGET_NETBSD_NR_setuid 23
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_geteuid 25
#define TARGET_NETBSD_NR_ptrace 26
#define TARGET_NETBSD_NR_recvmsg 27
#define TARGET_NETBSD_NR_sendmsg 28
#define TARGET_NETBSD_NR_recvfrom 29
#define TARGET_NETBSD_NR_accept 30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access 33
#define TARGET_NETBSD_NR_chflags 34
#define TARGET_NETBSD_NR_fchflags 35
#define TARGET_NETBSD_NR_sync 36
#define TARGET_NETBSD_NR_kill 37
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid 39
#define TARGET_NETBSD_NR_compat_43_lstat43 40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_getegid 43
#define TARGET_NETBSD_NR_profil 44
#define TARGET_NETBSD_NR_ktrace 45
#define TARGET_NETBSD_NR_compat_13_sigaction13 46
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_compatible_13_sigprocmask13 48
#define TARGET_NETBSD_NR__setlogin 49
#define TARGET_NETBSD_NR__setlogin 50
#define TARGET_NETBSD_NR_acct 51
#define TARGET_NETBSD_NR_compatible_13_sigprocmask13 52
#define TARGET_NETBSD_NR_compatible_13_sigaltstack13 53
#define TARGET_NETBSD_NR_ioctl 54
#define TARGET_NETBSD_NR_revoke 55
#define TARGET_NETBSD_NR_revoke 56
#define TARGET_NETBSD_NR_symlink 57
#define TARGET_NETBSD_NR_readlink 58
#define TARGET_NETBSD_NR_execve 59
#define TARGET_NETBSD_NR_umask 60
#define TARGET_NETBSD_NR_chroot 61
#define TARGET_NETBSD_NR_compatible_43_fstat43 62
#define TARGET_NETBSD_NR_compatible_43_ogetkerninfo 63
#define TARGET_NETBSD_NR_compatible_43_ogetpagesize 64
#define TARGET_NETBSD_NR_compatible_12_msync 65
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#define TARGET_NETBSD_NR_getgroups 79
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#define TARGET_NETBSD_NR_setitimer 83
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#define TARGET_NETBSD_NR_fcntl 92
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#define TARGET_NETBSD_NR_fsync 95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compatible_30_socket 97
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#define TARGET_NETBSD_NR_compat_43_osend 101
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#define TARGET_NETBSD_NR_bind 104
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#define TARGET_NETBSD_NR_compat_43_osigstack 112
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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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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.
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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
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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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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# # Don't put empty lines into this file!
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.gitignore
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
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
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
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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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk


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PCRE2 JUST-IN-TIME COMPILATION SUPPORT
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Written by: Zoltan Herczeg
Email local part: hzmester
Emain domain: freemail.hu

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

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Version 3, 29 June 2007

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Version 2.1, February 1999

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

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Computer graphics and geometric modeling: implementation and algorithms
By Max K. Agoston
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See also:
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Paper no. DETC2005-85513 pp. 565-575
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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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Contributors (in approximate order of appearance)

[See also the ChangeLog file where individuals are attributed in log entries. Likewise in the FAQ file.]

Ben Ellistonbj@cygnus dot com
Initiated the project;
setup the project infrastructure (CVS, web page, etc.);
early prototype routines.
Ross Johnson, pj at callisto dot canberra dot edu dot au
early prototype routines;
ongoing project coordination/maintenance;
implementation of spin locks and barriers;
various enhancements;
bug fixes;
documentation;
testsuite.
Robert Colquhoun, rcj at trump dot net dot au
Early bug fixes.
John E. Bossom, jdot Bossom at cognos dot com
Contributed substantial original working implementation;
bug fixes;
ongoing guidance and standards interpretation.
Anders Norlander, anorlander at hem2 dot passagen dot se
Early enhancements and runtime checking for supported
Win32 routines.
Tor Lilqvist, ml at iki dot fi
General enhancements;
early bug fixes to condition variables.
Scott Lightner, scott at curriculum dot com
Bug fix.
Kevin Ruland, kevin dot Ruland at anheuser-busch dot com
Various bug fixes.
Mike Russomiker, at eai dot com
Bug fix.
Mark E. Armstrong, avail at pacbell dot net
Bug fixes.
Lorin Hochstein, lmh at xiphos dot ca
general bug fixes; bug fixes to condition variables.
Peter Slacik, Peter dot Slacik at tatamed dot sk
Bug fixes.
Mumit Khan, khan at xraylith dot wisc dot edu
Fixes to work with Mingw32.
Milan Gardian, mg at tatamed dot sk
Bug fixes and reports/analyses of obscure problems.
Aurelio Medina, aureliom at crt dot com
First implementation of read-write locks.
Graham Dumpleton, Graham dot Dumpleton at ra dot pad dot otc dot telstra dot com dot au
Bug fix in condition variables.
Tristan Savatier, tristan at mpegtv dot com
WinCE port.
Erik Hensema, erik at hensema dot xs4all dot nl
Bug fixes.
Rich Peters, rpeters at micro-magic dot com
Todd Owen, towen at lucidcalm dot dropbear dot id dot au
Bug fixes to dll loading.
Jason Nye, jnye at nbnet dot nb dot ca
Implementation of async cancelation.
Fred Forester
fforest at eticomm dot net
Kevin D. Clark
clark at cabletron dot com
David Baggett
dmb at itasoftware dot com
Bug fixes.
Paul Redondo
at matchvision dot com
Scott McCaskill
scott at 3dfx dot com
Bug fixes.
Jef Gearhart
jgearhart at tpssys dot com
Bug fix.
Arthur Kantor
akantor at bexusa dot com
Mutex enhancements.
Steven Reddies
at essem er dot com dot com dot au
Bug fix.
Alexander Terekhov
TEREKHOV at de dot ibm dot com
Re-implemented and improved read-write locks;
(with Louis Thomas) re-implemented and improved
condition variables;
enhancements to semaphores;
enhancements to mutexes;
new mutex implementation in 'futex' style;
suggested a robust implementation of pthread_once
similar to that implemented by V.Kliathcko;
system clock change handling re CV timeouts;
bug fixes.
Thomas Pfaff
tpfaff at gmx dot net
Changes to make C version usable with C++ applications;
re-implemented mutex routines to avoid Win32 mutexes
and TryEnterCriticalSection;
procedure to fix Mingw32 thread-safety issues.
Franco Bez
franco dot bez at gmx dot de
procedure to fix Mingw32 thread-safety issues.
Louis Thomas
lthomas at arbitrade dot com
(with Alexander Terekhov) re-implemented and improved
condition variables.
David Korn
dgk at research dot att dot com
Ported to UWIN.
Phil Frisbie, Jr
phil at hawksoft dot com
Bug fix.
Ralf Brese
aldf dot Brese at pdb4 dot siemens dot de
Bug fix.
prionx at jun do dot com prionx at jun do dot com
Bug fixes.
Max Woodbury
mtew at cds dot duke dot edu
POSIX versioning conditionals;
reduced namespace pollution;
idea to separate routines to reduce statically
linked image sizes.
Rob Fannerrfanner at stonethree dot com
Bug fix.
Michael Johnson michaelj at maine dot rr dot com
Bug fix.
Nicolas Barryboozai at yahoo dot com
Bug fixes.
Piet van Bruggenpietvb at newbridges dot nl
Bug fix.
Makoto Katoraven at oldskool dot jp
AMD64 port.
Panagiotis E. Hadjidoukaspeh at hpclab dot ceid dot upatras dot gr
Contributed the QueueUserAPCEx package which makes preemptive async cancelation possible.
Will Bryantwill dot bryant at ecosm dot com
Borland compiler patch and makefile.
Anuj Goyalanuj dot goyal at gmail dot com
Port to Digital Mars compiler.
Gottlob Fregegottlobfreg at gmail dot com
re-implemented pthread_once (version 2) (pthread_once cancellation added by rpj).
Vladimir Kliatchkovladimir at kliatchko dot com
reimplemented pthread_once with the same form as described by A.Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.
PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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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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Ajay Joshi <jaj@google.com>
Balzs Dö <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
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Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@google.com>
Ji Sigursson <sjo@google.com>
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Kenton Varda <kenton@google.com>
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Markus Heule <markus.heule@gmail.com>
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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
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Note that it is possible for a library to be covered by the ordinary
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The "Library", below, refers to any such software library or work
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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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Included here to compliment the Pthreads-win32 license header in wtf/ThreadingWin.cpp file. WebKit is using derived sources of ThreadCondition code from Pthreads-win32.

Contributors (in approximate order of appearance)

[See also the ChangeLog file where individuals are attributed in log entries. Likewise in the FAQ file.]

Ben Elliston
bje at cygnus dot com
Initiated the project;
setup the project infrastructure (CVS, web page, etc.);
early prototype routines.
Ross Johnson
rpj at callisto dot canberra dot edu dot au
ongoing project coordination/maintenance;
implementation of spin locks and barriers;
various enhancements;
bug fixes;
documentation;
testsuite.
Robert Colquhounjc at trump dot net dot au
Early bug fixes.
John E. BossomJohn dot Bos at cognos dot com
Contributed substantial original working implementation;
bug fixes;
going ongoing guidance and standards interpretation.
Anders Norlanderanorland at hem2 dot passagen dot se
Early enhancements and runtime checking for supported
Win32 routines.
Tor Lillqvistml at iki dot fi
General enhancements;
early bug fixes to condition variables.
Scott Lightnersc at curriculum dot com
Bug fix.
Kevin RulandKevin dot Ruland at anheuser-busch dot com
Various bug fixes.
Mike Russomiker eai dot com
Bug fix.
Mark E. Armstrongavail at pacbell dot net
Bug fixes.
Lorin Hochstein lmh at xiphos dot ca
general bug fixes; bug fixes to condition variables.
Peter SlacikPeter dot Slacik at tatramed dot sk
Bug fixes.
Mumit Khankhan xraylith dot wisc dot edu
Fixes to work with Mingw32.
Milan Gardianmg at tatramed dot sk
Bug fixes and reports/analyses of obscure problems.
Aurelio Medinaaureliom at cirt dot com
First implementation of read-write locks.
Graham DumpletonGraham dot Dumpleton at ra dot pad dot otc dot telstra dot com dot au
Bug fix in condition variables.
Tristan Savatiertristan at mpegtv dot com
WinCE port.
Erik Hensemaerik hensema dot xs4all dot nl
Bug fixes.
Rich Petersrpeters at micro-magic dot com
Todd Owenowen lucidcalm dot dropbear dot id dot au
Bug fixes to dll loading.
Jason Nyejnye nbnet dot nb dot ca
Implementation of async cancelation.
Fred Foresterfforest at eticomm dot net
Kevin D. Clarkkclark at cabletron dot com
David Baggettmb at itasoftware dot com
Bug fixes.
Paul Redondopaul matchvision dot com
Bug fixes.

Jef Gearhart

Bug fix.

Arthur Kantor

Mutex enhancements.

Steven Reddies

Bug fix.

Alexander Terekhov

Re-implemented and improved read-write locks;
(with Louis Thomas) re-implemented and improved condition variables;
enhancements to semaphores;
enhancements to mutexes;
new mutex implementation in 'futex' style;
suggested a robust implementation of pthread_once similar to that implemented by V.Kliathcko;
system clock change handling re CV timeouts;
bug fixes.

Thomas Pfaff

Changes to make C version usable with C++ applications;
re-implemented mutex routines to avoid Win32 mutexes and TryEnterCriticalSection;
procedure to fix Mingw32 thread-safety issues.
Franco Bez

procedure to fix Mingw32 thread-safety issues.
Louis Thomas

(with Alexander Terekhov) re-implemented and improved condition variables.
David Korn

Ported to UWIN.
Phil Frisbie, Jr.

Bug fix.
Ralf Brese

Bug fix.
prionx at juno dot com

Bug fixes.
Max Woodbury

POSIX versioning conditionals;
reduced namespace pollution;
idea to separate routines to reduce statically linked image sizes.
Rob Fanner

Bug fix.
Michael Johnson

Bug fix.
Nicolas Barry

Bug fixes.
Piet van Bruggen

Makoto Katoraven

Panagiotis E. Hadjidoukas

Will Bryant

Anuj Goyal

Gottlob Frege

Vladimir Kliatchko

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Bug fix.

AMD64 port.

Contributed the QueueUserAPCEx package which makes preemptive async cancelation possible.

Borland compiler patch and makefile.

Port to Digital Mars compiler.

re-implemented pthread_once (version 2)
(pthread_once cancellation added by rpj).

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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{ "Committers": {
"Aaron Boodman": {
  "emails": [
    "aa@chromium.org"
  ],
  "nicks": [
    "aboodman"
  ]
},
"Aaron Colwell": {
  "emails": [
    "acolwell@chromium.org"
  ],
  "nicks": [
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  ]
},
"Adam Bergkvist": {
  "emails": [
    "adam.bergkvist@ericsson.com"
  ],
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    "adambe"
  ]
},
"Adam Kallai": {
  "emails": [
    "kadam@inf.u-szeged.hu"
  ],
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    "kadam"
  ]
},
"Adam Klein": {
  "emails": [
    "adamk@chromium.org"
  ],
  "nicks": [
    "aklein"
  ]
},
"Adam Langley": {
  "emails": [
    "agl@chromium.org"
  ],
  "expertise": "All Chromium Linux Code (yes, all of it)",
  "nicks": [
    "agl"
  ]
}
"Ademar de Souza Reis Jr" : {
    "emails" : [
        "ademar.reis@gmail.com",
        "ademar@webkit.org"
    ],
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        "ademar"
    ],
},
"Adenilson Cavalcanti" : {
    "emails" : [
        "cavalcantii@gmail.com"
    ],
    "nicks" : [
        "Savago"
    ],
},
"Albert J. Wong" : {
    "emails" : [
        "ajwong@chromium.org"
    ],
},
"Alec Flett" : {
    "emails" : [
        "alecflett@chromium.org",
        "alecflett@google.com"
    ],
    "nicks" : [
        "alecf"
    ],
},
"Alex Christensen" : {
    "emails" : [
        "achristensen@apple.com",
        "alex.christensen@flexsim.com"
    ],
    "expertise" : "Win64",
    "nicks" : [
        "alexcristensen"
    ],
},
"Alexander Faeroy" : {
    "emails" : [
        "ahf@0x90.dk",
        "alexander.faeroy@nokia.com"
    ],
    "expertise" : "The QtWebKit Port",
}
"nicks": [
  "ahf"
],
"Alexander Kellett": {
  "emails": [
    "lypanov@mac.com",
    "a-lists001@lypanov.net",
    "lypanov@kde.org"
  ],
  "nicks": [
    "lypanov"
  ]
},
"Alexandre Elias": {
  "emails": [
    "aelias@chromium.org",
    "aelias@google.com"
  ],
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  ]
},
"Alice Boxhall": {
  "emails": [
    "aboxhall@chromium.org"
  ],
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},
"Alok Priyadarshi": {
  "emails": [
    "alokp@chromium.org"
  ],
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  ]
},
"Ami Fischman": {
  "emails": [
    "fischman@chromium.org",
    "fischman@google.com"
  ],
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    "fischman"
  ]
}
"Amruth Raj" : {
    "emails" : [ 
        "amruthraj@motorola.com"
    ],
    "nicks" : [ 
        "amruthraj"
    ]
},
"Andras Becsi" : {
    "emails" : [ 
        "abecsi@webkit.org",
        "andras.becsi@digia.com"
    ],
    "expertise" : "The QtWebKit Port, Tools, Layout and Rendering",
    "nicks" : [ 
        "bbandix"
    ]
},
"Andre Boule" : {
    "emails" : [ 
        "aboule@apple.com"
    ]
},
"Andrei Bucur" : {
    "emails" : [ 
        "abucur@adobe.com"
    ],
    "nicks" : [ 
        "abucur"
    ]
},
"Andrei Popescu" : {
    "emails" : [ 
        "andreip@google.com"
    ],
    "nicks" : [ 
        "andreip"
    ]
},
"Andrew Lo" : {
    "emails" : [ 
        "anlo@blackberry.com",
        "anlo@rim.com",
        "andrewlo@gmail.com"
    ],
    "nicks" : [ 
        "andrewlo"
    ]
}
"Andrew Scherkus" : {
    "emails" : [
        "scherkus@chromium.org"
    ],
    "nicks" : [
        "scherkus"
    ]
},

"Andrew Wellington" : {
    "emails" : [
        "andrew@webkit.org",
        "proton@wiretapped.net"
    ],
    "nicks" : [
        "proton"
    ]
},

"Andrey Adaykin" : {
    "emails" : [
        "aandrey@chromium.org"
    ],
    "expertise" : "Developer Tools, Web Inspector",
    "nicks" : [
        "aandrey"
    ]
},

"Andrey Kosyakov" : {
    "emails" : [
        "caseq@chromium.org"
    ],
    "nicks" : [
        "caseq"
    ]
},

"Andy Wingo" : {
    "emails" : [
        "wingo@igalia.com"
    ],
    "expertise" : "JavaScriptCore, the WebKitGTK+ port",
    "nicks" : [
        "wingo"
    ]
},

"Anna Cavender" : {
    "emails" : [
        "annacc@chromium.org"
    ]
},
"Arno Renevier" : {
    "emails" : [
        "a.renevier@samsung.com"
    ],
    "nicks" : [
        "arno"
    ]
},
"Arpita Bahuguna" : {
    "emails" : [
        "a.bah@samsung.com"
    ],
    "nicks" : [
        "arpitab"
    ]
},
"Arvid Nilsson" : {
    "emails" : [
        "anilsson@blackberry.com",
        "anilsson@rim.com"
    ],
    "nicks" : [
        "anilsson"
    ]
},
"Balazs Kelemen" : {
    "emails" : [
        "kbalazs@webkit.org",
        "b.kelemen@sisa.samsung.com"
    ],
    "expertise" : "The QtWebKit Port, WebKit2",
    "nicks" : [
        "kbalazs"
    ]
},
"Bear Travis" : {
    "emails" : [
        "betravis@adobe.com"
    ],
    "nicks" : [
        "betravis"
    ]
}
"Ben Murdoch" : {
    "emails" : [
        "benm@google.com"
    ],
    "nicks" : [
        "benm"
    ]
},
"Ben Wells" : {
    "emails" : [
        "benwells@chromium.org"
    ],
    "nicks" : [
        "benwells"
    ]
},
"Benjamin C Meyer" : {
    "emails" : [
        "ben@meyerhome.net",
        "ben@webkit.org"
    ],
    "nicks" : [
        "icefox"
    ]
},
"Benjamin Kalman" : {
    "emails" : [
        "kalman@chromium.org",
        "kalman@google.com"
    ],
    "nicks" : [
        "kalman"
    ]
},
"Benjamin Otte" : {
    "emails" : [
        "otte@gnome.org",
        "otte@webkit.org"
    ],
    "expertise" : "WebKitGTK+ port, GTK+ lead developer",
    "nicks" : [
        "otte"
    ]
},
"Bill Budge" : {
    "emails" : [
        "bbudge@chromium.org",
        "bbudge@gmail.com"
"cpetersen@apple.com",

"expertise": "Performance testing, Qualification testing",

"nicks": [
  "cpetersen"
]
},

"Christian Dywan": {
  "emails": [
    "christian@twotoasts.de",
    "christian@webkit.org",
    "christian@lanedo.com"
  ],

  "expertise": "WebKitGTK+ port, Epiphany developer, HTML Editing",

  "nicks": [
    "claudio__"
  ]
},

"Claudio Saavedra": {
  "emails": [
    "csaavedra@igalia.com"
  ],

  "expertise": "WebKitGTK+ port, Epiphany developer, HTML Editing",

  "nicks": [
    "claudio___"
  ]
},

"Collin Jackson": {
  "emails": [
    "collinj@webkit.org"
  ],

  "nicks": [
    "collinjackson"
  ]
},

"Cris Neckar": {
  "emails": [
    "cdn@chromium.org"
  ],

  "nicks": [
    "cneckar"
  ]
},

"Dan Winship": {
  "emails": [
    "danw@gnome.org"
  ],

  "nicks": [
    "danw"
  ]
},

"Dana Jansens": {
"emails" : [
   "danakj@chromium.org"
 ],
"nicks" : [
   "danakj"
 ],
"Daniel Cheng" : {
   "emails" : [
      "dcheng@chromium.org"
   ],
   "nicks" : [
      "dcheng"
   ]
 },
"Dave Barton" : {
   "emails" : [
      "dharton@mathscribe.com"
   ],
   "expertise" : "MathML",
   "nicks" : [
      "davebarton"
   ]
 },
"Dave Tharp" : {
   "emails" : [
      "dtharp@codeaurora.org"
   ],
   "nicks" : [
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 },
"David Farler" : {
   "emails" : [
      "dfarler@apple.com"
   ],
   "nicks" : [
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   ]
 },
"David Grogan" : {
   "emails" : [
      "dgrogan@chromium.org",
      "dgrogan@google.com"
   ],
   "expertise" : "IndexedDB",
   "nicks" : [
      "dgrogan"
   ]
}
"emails" : [ 
  "dslomov@google.com",
  "dslomov@chromium.org"
],
"expertise" : "V8 bindings, Workers, gtest",
"nicks" : [ 
  "dslomov"
]
},
"Dominic Cooney" : { 
  "emails" : [ 
    "dominicc@chromium.org",
    "dominicc@google.com"
  ],
  "nicks" : [ 
    "dominicc"
  ]
},
"Dominic Mazzoni" : { 
  "emails" : [ 
    "dmazzoni@google.com",
    "dmazzoni@chromium.org"
  ],
  "nicks" : [ 
    "dmazzoni"
  ]
},
"Dominik Röttches" : { 
  "emails" : [ 
    "dominik.roettches@intel.com",
    "d-r@roettches.de"
  ],
  "expertise" : "WebKit EFL, Cairo HarfBuzz Support, GraphicsContextCairo",
  "nicks" : [ 
    "drott"
  ]
},
"Dongsceong Hwang" : { 
  "emails" : [ 
    "dongsceong.hwang@intel.com",
    "luxtella@gmail.com",
    "luxtella@company100.net"
  ],
  "expertise" : "Accelerated Compositing, Canvas, CSS Shaders",
  "nicks" : [ 
    "dshwang"
  ]
}
"Dongwoo Joshua Im" : {
  "emails" : [
    "dw.im@samsung.com",
    "dwim79@gmail.com"
  ],
  "expertise" : "The EFLWebKit Port",
  "nicks" : [
    "dwim"
  ]
},
"Drew Wilson" : {
  "emails" : [
    "atwilson@chromium.org"
  ],
  "expertise" : "The Chromium Port, Workers, MessagePorts",
  "nicks" : [
    "atwilson"
  ]
},
"Eli Fidler" : {
  "emails" : [
    "efidler@blackberry.com",
    "efidler@rim.com"
  ],
  "nicks" : [
    "efidler"
  ]
},
"Elliot Poger" : {
  "emails" : [
    "epoger@chromium.org"
  ],
  "expertise" : "Skia",
  "nicks" : [
    "epoger"
  ]
},
"Eric Roman" : {
  "emails" : [
    "eroman@chromium.org"
  ],
  "expertise" : "The Chromium Port",
  "nicks" : [
    "eroman"
  ]
},
"Eric Uhrhane" : {
  "emails" : [
    }
"ericu@chromium.org",
],
"nicks" : [ 
"ericu"
]
},
"Erik Arvidsson" : {
"emails" : [
"arv@chromium.org"
],
"nicks" : [ 
"arv"
]
},
"Eugene Klyuchnikov" : {
"emails" : [
"eustas@chromium.org"
],
"nicks" : [ 
"eustas"
]
},
"Evan Martin" : {
"emails" : [
"evan@chromium.org"
],
"nicks" : [ 
"evmar"
]
},
"Evan Stade" : {
"emails" : [
"estade@chromium.org"
],
"nicks" : [ 
"estade"
]
},
"Fady Samuel" : {
"emails" : [
"fsamuel@chromium.org"
],
"nicks" : [ 
"fsamuel"
]
},
"Feng Qian" : {
"emails" : [ 

}
"feng@chromium.org"
],
"Florin Malita" : {
  "emails" : [
    "fmalita@chromium.org",
    "fmalita@google.com"
  ],
  "expertise" : "SVG (Scalable Vector Graphics)",
  "nicks" : [
    "fmalita"
  ],
},
"Fumitoshi Ukai" : {
  "emails" : [
    "ukai@chromium.org"
  ],
  "expertise" : "WebSockets, The Chromium Port",
  "nicks" : [
    "ukai"
  ],
},
"Gabor Loki" : {
  "emails" : [
    "loki@webkit.org"
  ],
  "expertise" : "The QtWebKit Port, ARM JIT, Qt BuildBot",
  "nicks" : [
    "loki04"
  ],
},
"Gabor Rapcsanyi" : {
  "emails" : [
    "rgabor@webkit.org",
    "rgabor@inf.u-szeged.hu"
  ],
  "expertise" : "The QtWebKit Port, Qt BuildBot, Tools",
  "nicks" : [
    "rgabor"
  ],
},
"Gavin Peters" : {
  "emails" : [
    "gavinp@chromium.org",
    "gavinp@webkit.org",
    "gavinp@google.com"
  ],
  "expertise" : "The Chromium Port, Resource Loading",}
"nicks" : [
    "gavinp"
],
}

"Girish Ramakrishnan" : {
    "emails" : [
        "girish@forwardbias.in",
        "ramakrishnan.girish@gmail.com"
    ],
    "expertise" : "The QtWebKit Port, Plug-ins",
    "nicks" : [
        "girishr"
    ]
},

"Glenn Adams" : {
    "emails" : [
        "glenn@skynav.com"
    ],
    "expertise" : "CSS, CSSOM, Complex Script Layout, Line Breaking",
    "nicks" : [
        "gasubic"
    ]
},

"Graham Dennis" : {
    "emails" : [
        "Graham.Dennis@gmail.com",
        "gdennis@webkit.org"
    ]
},

"Greg Bolsinga" : {
    "emails" : [
        "bolsinga@apple.com"
    ]
},

"Gregg Tavares" : {
    "emails" : [
        "gman@chromium.org",
        "gman@google.com"
    ],
    "expertise" : "WebGL, CanvasProxy",
    "nicks" : [
        "gman"
    ]
},

"Grzegorz Czajkowski" : {
    "emails" : [
        "g.czajkowski@samsung.com"
    ]
}
"expertise": "WebKit-EFL API, Layout Test support",
"nicks": [
  "grzegorz"
],
"Hans Muller": {
  "emails": [
    "giles_joplin@yahoo.com",
    "hmuller@adobe.com"
  ],
  "expertise": "CSS Exclusions",
  "nicks": [
    "hansmuller"
  ]
},
"Hans Wennborg": {
  "emails": [
    "hans@chromium.org"
  ],
  "nicks": [
    "hwennborg"
  ]
},
"Hayato Ito": {
  "emails": [
    "hayato@chromium.org"
  ],
  "expertise": "Shadow DOM, Event Handling, Reftests",
  "nicks": [
    "hayato"
  ]
},
"Helder Correia": {
  "emails": [
    "helder.correia@nokia.com"
  ],
  "expertise": "The QtWebKit Port, Canvas",
  "nicks": [
    "helder"
  ]
},
"Hin-Chung Lam": {
  "emails": [
    "hclam@google.com",
    "hclam@chromium.org"
  ],
  "expertise": "HTML5 Video, Accelerated Compositing (Chromium Port)"
}
"Hironori Bono" : {
  "emails" : [
    "hbono@chromium.org"
  ],
  "nicks" : [
    "hbono"
  ],
},
"Hugo Parente Lima" : {
  "emails" : [
    "hugo.lima@openbossa.org"
  ],
  "expertise" : "The QtWebKit Port",
  "nicks" : [
    "hugopl"
  ],
},
"Ian Vollick" : {
  "emails" : [
    "vollick@chromium.org"
  ],
  "expertise" : "Graphics, Animations",
  "nicks" : [
    "vollick"
  ],
},
"Igor Trindade Oliveira" : {
  "emails" : [
    "igor.oliveira@webkit.org",
    "igor.o@sisa.samsung.com"
  ],
  "expertise" : "Animations, Accelerated Compositing, WebKitEFL",
  "nicks" : [
    "igoroliveira"
  ],
},
"Ilya Sherman" : {
  "emails" : [
    "isherman@chromium.org"
  ],
  "nicks" : [
    "isherman"
  ],
},
"Ilya Tikhonovsky" : {
  "emails" : [
    "loislo@chromium.org"
  ],
}
"nicks" : [ "loislo" ] },
"Ivan Ivan Krštić0107" : { "emails" : [ "ike@apple.com" ] },
"Jacky Jiang" : { "emails" : [ "jkkjiang@webkit.org", "zkjiang008@gmail.com", "zhajiang@blackberry.com", "zhajiang@rim.com" ], "expertise" : "The BlackBerry Port, Mobile Viewport Handling", "nicks" : [ "jkjiang" ] },
"Jakob Petsovits" : { "emails" : [ "jpetsovits@blackberry.com", "jpetsovits@rim.com", "jpetso@gmx.at" ], "expertise" : "The platform layer, OpenVG graphics backend", "nicks" : [ "jpetso" ] },
"Jakub Wieczorek" : { "emails" : [ "jwieczorek@webkit.org" ], "nicks" : [ "fawek" ] },
"James Hawkins" : { "emails" : [ "jhawkins@chromium.org", "jhawkins@google.com" ], "nicks" : [ "jhawkins" ] }
James Kozianski: 
  "emails": [
    "koz@chromium.org",
    "koz@google.com"
  ],
  "nicks": [
    "koz"
  ],

James Simonsen: 
  "emails": [
    "simonjam@chromium.org"
  ],
  "nicks": [
    "simonjam"
  ],

Janos Badics: 
  "emails": [
    "jbadics@inf.u-szeged.hu"
  ],
  "nicks": [
    "dicska"
  ],

Jarred Nicholls: 
  "emails": [
    "jarred@webkit.org",
    "jarred@sencha.com"
  ],
  "nicks": [
    "jarrednicholls"
  ],

Jason Liu: 
  "emails": [
    "jason.liu@torchmobile.com.cn",
    "jasonliuwebkit@gmail.com"
  ],
  "nicks": [
    "jasonliu"
  ],

Jay Civelli: 
  "emails": [
    "jcinelli@chromium.org"
  ],
"nicks" : [ "jcivelli" ]},
"Jeff Miller" : { "emails" : [ "jeffm@apple.com" ],
"nicks" : [ "jeffm7" ]},
"Jeffrey Pfau" : { "emails" : [ "jpfau@apple.com" ],
"nicks" : [ "jpfau" ]},
"Jenn Braithwaite" : { "emails" : [ "jennb@chromium.org" ],
"nicks" : [ "jennb" ]},
"Jens Alfke" : { "emails" : [ "snej@chromium.org", "jens@apple.com" ]},
"Jeremy Moskovich" : { "emails" : [ "playmobil@google.com", "jeremy@chromium.org" ],
"expertise" : "The Chromium Port on OS X", 
"nicks" : [ "jeremymos" ]},
"Jesus Sanchez-Palencia" : { "emails" : [ "jesus@webkit.org", "jesus.palencia@openbossa.org" ]}
"jknotten@chromium.org",
],
"nicks" : [ 
  "jknotten"
]
},
"Johnny Ding" : {
  "emails" : [ 
    "jnd@chromium.org",
    "johnnyding.webkit@gmail.com"
  ],
  "nicks" : [ 
    "johnnyding"
  ]
},
"Jon Lee" : {
  "emails" : [ 
    "jonlee@apple.com"
  ],
  "expertise" : "Forms, Notifications",
  "nicks" : [ 
    "jonlee"
  ]
},
"Jonathan Dong" : {
  "emails" : [ 
    "jonathan.dong.webkit@gmail.com",
    "jonathan.dong@torchmobile.com.cn"
  ],
  "expertise" : "The BlackBerry Port",
  "nicks" : [ 
    "jondong"
  ]
},
"Joone Hur" : {
  "emails" : [ 
    "joone@webkit.org",
    "joone.hur@intel.com"
  ],
  "expertise" : "The WebKitGtk+ port",
  "nicks" : [ 
    "joone"
  ]
},
"Joost de Valk" : {
  "emails" : [ 
    "joost@webkit.org",
    "webkit-dev@joostdevalk.nl"
  ],
"nicks" : [ 
  "Altha"
]
},
"Joshua Bell" : {
  "emails" : [ 
    "jsbell@chromium.org",
    "jsbell@google.com"
  ],
  "nicks" : [ 
    "jsbell"
  ]
},
"Julie Parent" : {
  "emails" : [ 
    "jparent@google.com",
    "jparent@chromium.org"
  ],
  "expertise" : "HTML Editing",
  "nicks" : [ 
    "jparent"
  ]
},
"Jungshik Shin" : {
  "emails" : [ 
    "jshin@chromium.org"
  ]
},
"Justin Novosad" : {
  "emails" : [ 
    "junov@google.com",
    "junov@chromium.org"
  ],
  "nicks" : [ 
    "junov"
  ]
},
"Justin Schuh" : {
  "emails" : [ 
    "jschuh@chromium.org"
  ],
  "expertise" : "Security",
  "nicks" : [ 
    "jschuh"
  ]
},
"Kangil Han" : {

"Ken Buchanan" : {
  "emails" : [
    "kenrb@chromium.org"
  ],
  "nicks" : [
    "kenrb"
  ],
},
"Kenichi Ishibashi" : {
  "emails" : [
    "bashi@chromium.org"
  ],
  "nicks" : [
    "bashi"
  ],
},
"Kenji Imasaki" : {
  "emails" : [
    "imasaki@chromium.org"
  ],
  "nicks" : [
    "imasaki"
  ],
},
"Kent Hansen" : {
  "emails" : [
    "kent.hansen@nokia.com"
  ],
  "expertise" : "The QtWebKit Port, JavaScript/ECMAScript",
  "nicks" : [
    "khansen"
  ],
},
"Kihong Kwon" : {
  "emails" : [
    "kihong.kwon@samsung.com"
  ],
  "expertise" : "Device APIs(Battery Status, Vibration...), The EFLWebKit Port",
  "nicks" : [
    "kihong"
  ],
},
"Kim Gr"u00f6nholm" : {
  "emails" : [
    "kim.1.gronholm@nokia.com"
  ],
  "Kimmo Kinnunen" : {
}
"emails" : [ 
  "kimmo.t.kinnunen@nokia.com",
  "kimmok@iki.fi",
  "ktkinnun@webkit.org"
],
"nicks" : [ 
  "kimmok"
],
"Kinuko Yasuda" : {
  "emails" : [ 
    "kinuko@chromium.org"
  ],
  "nicks" : [ 
    "kinuko"
  ]
},
"Kiran Muppala" : {
  "emails" : [ 
    "cmuppala@apple.com"
  ],
  "nicks" : [ 
    "kirannm"
  ]
},
"Konrad Piascik" : {
  "emails" : [ 
    "kpiascik@blackberry.com",
    "kpiascik@rim.com"
  ],
  "expertise" : "The BlackBerry Port, Web Inspector",
  "nicks" : [ 
    "kpiascik"
  ]
},
"Kristof Kosztyo" : {
  "emails" : [ 
    "kkristof@inf.u-szeged.hu"
  ],
  "nicks" : [ 
    "kkristof"
  ]
},
"Krzysztof Kowalczyk" : {
  "emails" : [ 
    "kkowalczyk@gmail.com"
  ]
}
"Kwang Yul Seo" : {
    "emails" : [
        "skyul@company100.com",
        "skyul@company100.net",
        "kseo@webkit.org"
    ],
    "expertise" : "HTML Parsing, Networking, WebKit2",
    "nicks" : [
        "kseo"
    ]
},

"Lauro Neto" : {
    "emails" : [
        "lauro.neto@openbossa.org"
    ],
    "nicks" : [
        "lmoura"
    ]
},

"Leandro Gracia Gil" : {
    "emails" : [
        "leandrogracia@chromium.org"
    ],
    "nicks" : [
        "leandrogracia"
    ]
},

"Leandro Pereira" : {
    "emails" : [
        "leandro@profusion.mobi",
        "leandro@webkit.org"
    ],
    "nicks" : [
        "acidx"
    ]
},

"Leo Yang" : {
    "emails" : [
        "leoyang@blackberry.com",
        "leoyang@rim.com",
        "leoyang@webkit.org",
        "leoyang.webkit@gmail.com"
    ],
    "expertise" : "The BlackBerry Port",
    "nicks" : [
        "leoyang"
    ]
}
"Li Yin" : {
    "emails" : [
        "li.yin@intel.com"
    ],
    "expertise" : "WebSocket, WebAudio",
    "nicks" : [
        "liyin"
    ],
},
"Lucas De Marchi" : {
    "emails" : [
        "demarchi@webkit.org",
        "lucas.demarchi@profusion.mobi"
    ],
    "nicks" : [
        "demarchi"
    ],
},
"Lucas Forschler" : {
    "emails" : [
        "lforschler@apple.com"
    ],
    "nicks" : [
        "lforschler"
    ],
},
"Luciano Wolf" : {
    "emails" : [
        "luciano.wolf@openbossa.org"
    ],
    "nicks" : [
        "luck"
    ],
},
"Luke Macpherson" : {
    "emails" : [
        "macpherson@chromium.org",
        "macpherson@google.com"
    ],
    "nicks" : [
        "macpherson"
    ],
},
"Mads Ager" : {
    "emails" : [
        "ager@chromium.org"
    ],
    "expertise" : "V8"
"pilgrim_google"
]
},
"Mary Wu" : {
 "emails" : [
 "mawu@blackberry.com",
 "wwendy2007@gmail.com"
 ],
 "nicks" : [
 "marywu"
 ]
},
"Matt Delaney" : {
 "emails" : [
 "mdelaney@apple.com"
 ],
 "nicks" : [
 "falken"
 ]
},
"Matt Falkenhagen" : {
 "emails" : [
 "falken@chromium.org"
 ],
 "nicks" : [
 "falken"
 ]
},
"Matt Lilek" : {
 "emails" : [
 "mmlilek@apple.com",
 "webkit@mattlilek.com",
 "pewtermoose@webkit.org"
 ],
 "nicks" : [
 "pewtermoose"
 ]
},
"Matt Perry" : {
 "emails" : [
 "mpcomplete@chromium.org"
 ]
},
"Max Vujovic" : {
 "emails" : [
 "mvujovic@adobe.com",
 "maxvujovic@gmail.com"
 ],
 "expertise" : "CSS Shaders, CSS Filters",
 "nicks" : [
 "mvujovic"
 ]
}
"Maxime Britto" : {
    "emails" : [
        "maxime.britto@gmail.com",
        "britto@apple.com"
    ],
    "expertise" : "The Haiku Port",
    "nicks" : [
        "maxime.britto"
    ]
},
"Maxime Simon" : {
    "emails" : [
        "simon.maxime@gmail.com",
        "maxime.simon@webkit.org"
    ],
    "expertise" : "The Haiku Port",
    "nicks" : [
        "maxime.simon"
    ]
},
"Michael Brunin" : {
    "emails" : [
        "michael.bruning@digia.com",
        "michaelbrunin@gmail.com"
    ],
    "expertise" : "The QtWebKit Port",
    "nicks" : [
        "mibrunin"
    ]
},
"Michael Nordman" : {
    "emails" : [
        "michaeln@google.com"
    ],
    "nicks" : [
        "michaeln"
    ]
},
"Michael Pruett" : {
    "emails" : [
        "michael@68k.org"
    ],
    "nicks" : [
        "mpruett"
    ]
},
"Michelangelo De Simone" : {
    "emails" : [
        "michelangelo@webkit.org"
    ]
}
"expertise": "HTML Forms, ValidityState",
"nicks": [
  "michelangelo"
],
"Mihnea Ovidenie": {
  "emails": [
    "mihnea@adobe.com"
  ],
  "nicks": [
    "mihnea"
  ],
},
"Mike Belshe": {
  "emails": [
    "mbelshe@chromium.org",
    "mike@belshe.com"
  ],
  "nicks": [
    "mfenton"
  ],
},
"Mike Fenton": {
  "emails": [
    "mifenton@blackberry.com",
    "mifenton@rim.com",
    "mike.fenton@torchmobile.com"
  ],
  "nicks": [
    "mfenton"
  ],
},
"Mike Lawther": {
  "emails": [
    "mikelawther@chromium.org"
  ],
  "nicks": [
    "mikelawther"
  ],
},
"Mike Reed": {
  "emails": [
    "reed@google.com"
  ],
  "nicks": [
    "reed"
  ],
},
"Mike Thole": {
  "emails": [
    "mthole@mikethole.com",
  ]}
"nayankk@motorola.com",
"nayankk@gmail.com"
],
"nicks" : [
 "xc0ffee"
]
},
"Nima Ghanavatian" : {
 "emails" : [
 "nghanavatian@blackberry.com",
 "nghanavatian@rim.com",
 "nima.ghanavatian@gmail.com"
],
"nicks" : [
 "nghanavatian"
]
},
"Noel Gordon" : {
 "emails" : [
 "noel.gordon@gmail.com",
 "noel@chromium.org",
 "noel@google.com"
],
"nicks" : [
 "noel"
]
},
"Pablo Flouret" : {
 "emails" : [
 "pablof@motorola.com",
 "pf@parb.es"
],
"nicks" : [
 "pablof"
]
},
"Pam Greene" : {
 "emails" : [
 "pam@chromium.org"
],
"expertise" : "The Chromium Port, Chromium's Tools and Test Infrastructure",
"nicks" : [
 "pamg"
]
},
"Patrick Gansterer" : {
 "emails" : [
 "paroga@paroga.com",
"paroga@paroga.com",}
"paroga@webkit.org",
],
"expertise" : "CMake build system, The WinCE Port",
"nicks" : [
  "paroga"
]
},
"Pavel Podivilov" : {
  "emails" : [
    "podivilov@chromium.org"
  ],
  "nicks" : [
    "podivilov"
  ]
},
"Peter Beverloo" : {
  "emails" : [
    "peter@chromium.org",
    "peter@webkit.org",
    "beverloo@google.com"
  ],
  "nicks" : [
    "beverloo"
  ]
},
"Peter Kasting" : {
  "emails" : [
    "pkasting@chromium.org",
    "pkasting@google.com"
  ],
  "expertise" : "Image Decoders, Scrollbars, The Chromium port",
  "nicks" : [
    "pkasting"
  ]
},
"Peter Varga" : {
  "emails" : [
    "pvarga@webkit.org",
    "pvarga@inf.u-szeged.hu"
  ],
  "expertise" : "JavaScriptCore Regular Expressions",
  "nicks" : [
    "stampho"
  ]
},
"Pierre Rossi" : {
  "emails" : [
    "pierre.rossi@gmail.com"
"nicks" : [ 
"elpproxy"
]
},
"Pierre d'Herbemont" : {
"emails" : [ 
"pdherbemont@free.fr",
"pdherbemont@apple.com"
],
"expertise" : "Media Elements",
"nicks" : [ 
"pdherbemont"
]
},
"Pierre-Olivier Latour" : {
"emails" : [ 
"pol@apple.com"
],
"nicks" : [ 
"pol"
]
},
"Pratik Solanki" : {
"emails" : [ 
"psolanki@apple.com"
],
"nicks" : [ 
"psolanki"
]
},
"Pravin D" : {
"emails" : [ 
"pravind@webkit.org",
"pravin.d@samsung.com"
],
"nicks" : [ 
"pravind"
]
},
"Qi Zhang" : {
"emails" : [ 
"qi.zhang02180@gmail.com"
],
"nicks" : [ 
"qi"
]
}
"Rafael Antognolli" : {
    "emails" : [
        "antognolli@profusion.mobi"
    ],
    "nicks" : [
        "antognolli"
    ],
},
"Rafael Brandao" : {
    "emails" : [
        "rafael.lobo@webkit.org"
    ],
    "nicks" : [
        "rafaelbrandao"
    ],
},
"Rafael Weinstein" : {
    "emails" : [
        "rafaelw@chromium.org"
    ],
    "nicks" : [
        "rafaelw"
    ],
},
"Raphael Kubo da Costa" : {
    "emails" : [
        "rakuco@webkit.org",
        "rakuco@FreeBSD.org",
        "raphael.kubo.da.costa@intel.com"
    ],
    "expertise" : "CMake build system, The EFLWebKit port",
    "nicks" : [
        "rakuco"
    ],
},
"Ravi Kasibhatla" : {
    "emails" : [
        "ravi.kasibhatla@motorola.com"
    ],
    "nicks" : [
        "kphanee"
    ],
},
"Raymond Toy" : {
    "emails" : [
        "rtoy@google.com",
        "rtoy@chromium.org"
    ],
}
"nicks" : [ 
  "rtoy"
],
"Renata Hodovan" : { 
  "emails" : [ 
    "reni@webkit.org"
  ], 
  "nicks" : [ 
    "reni"
  ]
},
"Robert Hogan" : { 
  "emails" : [ 
    "robert@webkit.org", 
    "robert@roberthogan.net", 
    "lists@roberthogan.net"
  ], 
  "nicks" : [ 
    "rhogan"
  ]
},
"Robert Kroeger" : { 
  "emails" : [ 
    "rjkroege@chromium.org"
  ], 
  "nicks" : [ 
    "rjkroege"
  ]
},
"Roger Fong" : { 
  "emails" : [ 
    "roger_fong@apple.com"
  ], 
  "nicks" : [ 
    "rfong"
  ]
},
"Roland Steiner" : { 
  "emails" : [ 
    "rolandsteiner@chromium.org"
  ]
},
"Ryuan Choi" : { 
  "emails" : [ 
    "ryuan.choi@samsung.com", 
    "ryuan.choi@gmail.com"
  ]}
"shawnsingh@chromium.org",
],
"nicks" : [
  "shawnsingh"
]
},
"Shinya Kawanaka" : {
  "emails" : [
    "shinyak@chromium.org"
  ],
  "nicks" : [
    "shinyak"
  ]
},
"Siddharth Mathur" : {
  "emails" : [
    "siddharth.mathur@nokia.com"
  ],
  "nicks" : [
    "simathur"
  ]
},
"Silvia Pfeiffer" : {
  "emails" : [
    "silviapf@chromium.org"
  ],
  "expertise" : "Media elements & controls, track element & WebVTT",
  "nicks" : [
    "silvia"
  ]
},
"Simon Pena" : {
  "emails" : [
    "simon.pena@samsung.com",
    "spenap@gmail.com",
    "spena@igalia.com"
  ],
  "nicks" : [
    "spenap"
  ]
},
"Steve Lacey" : {
  "emails" : [
    "sjl@chromium.org"
  ],
  "nicks" : [
    "stevela"
  ]
}
"Sudarsana Nagineni" : {
    "emails" : [
        "naginenis@gmail.com",
        "sudarsana.nagineni@linux.intel.com",
        "sudarsana.nagineni@intel.com"
    ],
    "expertise" : "The EFLWebKit port, Memory Leaks",
    "nicks" : [
        "babu"
    ]
},
"Szilard Ledan-Muntean" : {
    "emails" : [
        "szledan@inf.u-szeged.hu"
    ],
    "nicks" : [
        "szledan"
    ]
},
"Taiju Tsuiki" : {
    "emails" : [
        "tzik@chromium.org"
    ],
    "nicks" : [
        "tzik"
    ]
},
"Takashi Sakamoto" : {
    "emails" : [
        "tasak@google.com"
    ],
    "nicks" : [
        "tasak"
    ]
},
"Takashi Toyoshima" : {
    "emails" : [
        "toyoshim@chromium.org",
        "toyoshim+watchlist@chromium.org"
    ],
    "expertise" : "WebSocket",
    "nicks" : [
        "toyoshim"
    ]
},
"Terry Anderson" : {
    "emails" : [}
"tdanderson@chromium.org",
],
"nicks" : [
 "tdanderson"
]
},
"Thiago Marcos P. Santos" : {
 "emails" : [
 "tmpsantos@gmail.com",
 "thiago.santos@intel.com"
]
},
"expertise" : "CSS Device Adaptation, CMake build system, The EFLWebKit port",
"nicks" : [
 "tmpsantos"
]
},
"Thomas Sepez" : {
 "emails" : [
 "tsepez@chromium.org"
]
},
"nicks" : [
 "tsepez"
]
},
"Tom Hudson" : {
 "emails" : [
 "tomhudson@google.com",
 "tomhudson@chromium.org"
]
},
"nicks" : [
 "tomhudson"
]
},
"Tom Zakrajsek" : {
 "emails" : [
 "tomz@codeaurora.org"
]
},
"nicks" : [
 "tomz"
]
},
"Tommy Widenflycht" : {
 "emails" : [
 "tommyw@google.com"
]
},
"nicks" : [
 "tommyw"
]
}
"Trey Matteson" : {
    "emails" : [
        "trey@usa.net"
    ],
    "nicks" : [
        "trey"
    ]
},
"Tristan O'Tierney" : {
    "emails" : [
        "tristan@otierney.net",
        "tristan@apple.com"
    ],
    "nicks" : [
        "tristan"
    ]
},
"Vangelis Kokkevis" : {
    "emails" : [
        "vangelis@chromium.org"
    ],
    "nicks" : [
        "vangelis"
    ]
},
"Viatcheslav Ostapenko" : {
    "emails" : [
        "ostap73@gmail.com",
        "sl.ostapenko@samsung.com",
        "ostapenko.viatcheslav@nokia.com"
    ],
    "nicks" : [
        "ostap"
    ]
},
"Victor Carbune" : {
    "emails" : [
        "vcarbune@chromium.org",
        "victor@rosedu.org"
    ],
    "expertise" : "HTML5 <Track>",
    "nicks" : [
        "vcarbune"
    ]
},
"Victor Wang" : {
    "emails" : [
        "victorw@chromium.org"
    ],
    "nicks" : [}
"victorw"
],
"Victoria Kirst" : {
  "emails" : [
    "vrk@chromium.org",
    "vrk@google.com"
  ],
  "nicks" : [
    "vrk"
  ]
},
"Vincent Scheib" : {
  "emails" : [
    "scheib@chromium.org"
  ],
  "nicks" : [
    "scheib"
  ]
},
"Vineet Chaudhary" : {
  "emails" : [
    "rgf748@motorola.com"
  ],
  "nicks" : [
    "vineete"
  ]
},
"Vitaly Repeshko" : {
  "emails" : [
    "vitalyr@chromium.org"
  ]
},
"Vivek Galatage" : {
  "emails" : [
    "vivekg@webkit.org",
    "vivek.vg@samsung.com"
  ],
  "expertise" : "Web Inspector",
  "nicks" : [
    "vivekg"
  ]
},
"W. James MacLean" : {
  "emails" : [
    "wjmaclean@chromium.org"
  ],
  "nicks" : [
}
"seumas"
]
},
"William Siegrist" : {
  "emails" : [
    "wsiegrist@apple.com"
  ],
  "expertise" : "webkit.org",
  "nicks" : [
    "wms"
  ]
},
"Xianzhu Wang" : {
  "emails" : [
    "wangxianzhu@chromium.org",
    "phnixwxz@gmail.com",
    "wangxianzhu@google.com"
  ],
  "nicks" : [
    "wangxianzhu"
  ]
},
"Xiaohai Wei" : {
  "emails" : [
    "james.wei@intel.com",
    "wistoch@chromium.org"
  ],
  "expertise" : "WebAudio/ChromiumAndroidx86",
  "nicks" : [
    "wistoch"
  ]
},
"Xiaomei Ji" : {
  "emails" : [
    "xji@chromium.org"
  ],
  "nicks" : [
    "xji"
  ]
},
"Xingnan Wang" : {
  "emails" : [
    "xingnan.wang@intel.com"
  ],
  "nicks" : [
    "xingnan"
  ]
}
"Yaar Schnitman" : {
    "emails" : [
        "yaar@chromium.org",
        "yaar@google.com"
    ],
},
"Yael Aharon" : {
    "emails" : [
        "yael@webkit.org"
    ],
    "nicks" : [
        "yael"
    ],
},
"Yi Shen" : {
    "emails" : [
        "max.hong.shen@gmail.com",
        "yi.shen@sisa.samsung.com",
        "yi.4.shen@nokia.com"
    ],
},
"Yongjun Zhang" : {
    "emails" : [
        "yongjun_zhang@apple.com",
        "yongjun.zhang@nokia.com"
    ],
},
"Yoshifumi Inoue" : {
    "emails" : [
        "yosin@chromium.org"
    ],
    "expertise" : "HTML5 Forms especially for multiple-fields UI, charset encoding, decimal arithmetic",
    "nicks" : [
        "yosin"
    ],
},
"Yuqiang Xian" : {
    "emails" : [
        "yuqiang.xian@intel.com"
    ],
    "expertise" : "JavaScriptCore"
},
"Yuzo Fujishima" : {
    "emails" : [
        "yuzo@google.com"
    ],
    "nicks" : [
        "yuzo"
"Zalan Bujtas" : {
  "emails" : [
    "zalan@apple.com",
    "zbujtas@gmail.com",
    "zalan.bujtas@nokia.com"
  ],
  "expertise" : "Frame flattening",
  "nicks" : [
    "zalan"
  ]
},
"Zeno Albisser" : {
  "emails" : [
    "zeno@webkit.org",
    "zeno.albisser@nokia.com",
    "zeno.albisser@digia.com"
  ],
  "expertise" : "The QtWebKit Port",
  "nicks" : [
    "zalbisser"
  ]
},
"Zhenyao Mo" : {
  "emails" : [
    "zmo@google.com"
  ],
  "nicks" : [
    "zhenyao"
  ]
},
"Zoltan Arvai" : {
  "emails" : [
    "zarvai@inf.u-szeged.hu"
  ],
  "expertise" : "The QtWebKit Port, QtWebKit Build Environment",
  "nicks" : [
    "azbest_hu"
  ]
},
"Zoltan Horvath" : {
  "emails" : [
    "zoltan@webkit.org",
    "hzoltan@inf.u-szeged.hu",
    "horvath.zoltan.6@stud.u-szeged.hu"
  ],
  "expertise" : "The QtWebKit Port, Custom Allocation Framework, PerformanceTests - memory"
measurements",
    "nicks" : [
        "zoltan"
    ],
},
"uu017dan Dober\u0161ek" : {
    "emails" : [
        "zandobersek@gmail.com",
        "zdobersek@igalia.com"
    ],
    "nicks" : [
        "zdobersek"
    ]
}
},
"Contributors" : {
    "Adobe Bug Tracker" : {
        "emails" : [
            "WebkitBugTracker@adobe.com"
        ],
    },
    "Aharon Lanin" : {
        "emails" : [
            "aharon@google.com"
        ],
    },
    "Alan Cutter" : {
        "emails" : [
            "alancutter@chromium.org"
        ],
        "nicks" : [
            "alancutter"
        ]
    },
    "Alan Stearns" : {
        "emails" : [
            "stearns@adobe.com"
        ],
        "nicks" : [
            "astearns"
        ]
    },
    "Alejandro Pineiro" : {
        "emails" : [
            "apinheiro@igalia.com"
        ]
    },
    "Alexey Marinichev" : {
"emails" : [ 
    "amarinichev@chromium.org",
    "amarinichev@google.com"
],
"nicks" : [ 
    "amarinichev"
],
"Andras Piroska" : { 
    "emails" : [ 
        "pandras@inf.u-szeged.hu"
    ],
    "nicks" : [ 
        "andris88"
    ]
},
"Anne van Kesteren" : { 
    "emails" : [ 
        "annevk@annevk.nl"
    ],
    "nicks" : [ 
        "annevk"
    ]
},
"Annie Sullivan" : { 
    "emails" : [ 
        "sullivan@chromium.org"
    ],
    "nicks" : [ 
        "annie"
    ]
},
"Anton Obzhirov" : { 
    "emails" : [ 
        "a.obzhirov@samsung.com"
    ],
    "nicks" : [ 
        "aobzhirov"
    ]
},
"Anton Vayvod" : { 
    "emails" : [ 
        "avayvod@chromium.org"
    ],
    "nicks" : [ 
        "avayvod"
    ]
}
"Aryeh Gregor" : {
  "emails" : [
    "ayg@aryeh.name"
  ],
  "nicks" : [
    "AryehGregor"
  ],
},
"Balazs Ankes" : {
  "emails" : [
    "bank@inf.u-szeged.hu"
  ],
  "nicks" : [
    "abalazs"
  ],
},
"Bem Jones-Bey" : {
  "emails" : [
    "bjonesbe@adobe.com"
  ],
  "nicks" : [
    "bemjb"
  ],
},
"Brian Salomon" : {
  "emails" : [
    "bsalomon@google.com"
  ],
},
"Christian Biesinger" : {
  "emails" : [
    "cbiesinger@chromium.org"
  ],
  "nicks" : [
    "cbiesinger"
  ],
},
"Commit Queue" : {
  "emails" : [
    "commit-queue@webkit.org"
  ],
},
"Daniel Sievers" : {
  "emails" : [
    "sievers@chromium.org"
  ],
},
"David Dorwin" : {
"emails": [
  "ddorwin@chromium.org"
],
"nicks": [
  "ddorwin"
],
"David Reveman": {
  "emails": [
    "reveman@chromium.org"
  ],
  "nicks": [
    "reveman"
  ]
},
"Douglas Davidson": {
  "emails": [
    "ddavidso@apple.com"
  ]
},
"Douglas Stockwell": {
  "emails": [
    "dstockwell@chromium.org"
  ],
  "nicks": [
    "dstockwell"
  ]
},
"Edward O'Connor": {
  "emails": [
    "eoconnor@apple.com"
  ],
  "nicks": [
    "hober"
  ]
},
"Eric Penner": {
  "emails": [
    "epenner@chromium.org"
  ],
  "nicks": [
    "epenner"
  ]
},
"Felician Marton": {
  "emails": [
    "felician@inf.u-szeged.hu",
    "marton.felician.zoltan@stud.u-szeged.hu"
  ]}
"nicks" : [ "Felician"
]
},
"Fréderic Wang" : {
"emails" : [ "fred.wang@free.fr"
],
"nicks" : [ "fredw"
]
},
"Finnur Thorarinson" : {
"emails" : [ "finnur@chromium.org",
"finnur.webkit@gmail.com"
],
"nicks" : [ "finnur"
]
},
"Forms Bugs" : {
"emails" : [ "forms-bugs@chromium.org"
]
},
"Gabor Ballabas" : {
"emails" : [ "gaborb@inf.u-szeged.hu"
],
"nicks" : [ "bgabor"
]
},
"Grace Kloba" : {
"emails" : [ "klobag@chromium.org"
],
"nicks" : [ "klobag"
]
},
"Greg Simon" : {
"emails" : [ "gregsimon@chromium.org"
],
"nicks" : [ ]
}
"gregsimon"

},

"Gwang Yoon Hwang" : {
    "emails" : [
        "ryumiel@company100.net",
        "ryumiel@company100.com"
    ],
    "nicks" : [
        "ryumiel"
    ]
},

"Hao Zheng" : {
    "emails" : [
        "zhenghao@chromium.org"
    ],
    "nicks" : [
        "hta"
    ]
},

"Harald Alvestrand" : {
    "emails" : [
        "hta@google.com"
    ],
    "nicks" : [
        "hta"
    ]
},

"Ian Hickson" : {
    "emails" : [
        "ian@hixie.ch"
    ],
    "nicks" : [
        "hixie"
    ]
},

"Jae Hyun Park" : {
    "emails" : [
        "jae.park@company100.net"
    ],
    "nicks" : [
        "jaepark"
    ]
},

"James Craig" : {
    "emails" : [
        "james@cookiecrook.com",
        "jcreig@apple.com"
    ],
    "nicks" : [
        "jcreig"
    ]
}
"Jeff Timanus" : {
    "emails" : [
        "twiz@chromium.org",
        "twiz@google.com"
    ],
    "nicks" : [
        "twiz"
    ]
},
"Jing Zhao" : {
    "emails" : [
        "jingzhao@chromium.org"
    ],
    "nicks" : [
        "jbates"
    ]
},
"John Bates" : {
    "emails" : [
        "jbates@chromium.org",
        "jbates@chromium.org"
    ],
    "nicks" : [
        "jbates"
    ]
},
"John Bauman" : {
    "emails" : [
        "jbauman@chromium.org",
        "jbauman@google.com"
    ],
    "nicks" : [
        "jbauman"
    ]
},
"John Mellor" : {
    "emails" : [
        "johnme@chromium.org"
    ],
    "nicks" : [
        "johnme"
    ]
},
"Jonathan Backer" : {
    "emails" : [
        "backer@chromium.org"
    ],
    "nicks" : [
        "backer"
"emails": [
    "stavila@adobe.com"
],
"nicks": [
    "radustavila"
],
"Raul Hudea": {
    "emails": [
        "rhudea@adobe.com"
    ],
    "nicks": [
        "rhudea"
    ]
},
"Roland Takacs": {
    "emails": [
        "rtakacs@inf.u-szeged.hu"
    ],
    "nicks": [
        "rtakacs"
    ]
},
"Tab Atkins": {
    "emails": [
        "tabatkins@google.com",
        "jackalmage@gmail.com"
    ],
    "nicks": [
        "tabatkins"
    ]
},
"Tamas Czene": {
    "emails": [
        "tczene@inf.u-szeged.hu",
        "Czene.Tamas@stud.u-szeged.hu"
    ],
    "nicks": [
        "tczene"
    ]
},
"Tien-Ren Chen": {
    "emails": [
        "trchen@chromium.org"
    ],
    "nicks": [
        "trchen"
    ]
}
"nicks": [
  "Smith"
]
}
}

"Reviewers": {
  "Abhishek Arya": {
    "emails": [
      "inferno@chromium.org"
    ],
    "expertise": "Security, Layout and Rendering",
    "nicks": [
      "inferno-sec"
    ]
  },
  "Ada Chan": {
    "emails": [
      "adachan@apple.com"
    ],
    "expertise": "WebKit on Windows",
    "nicks": [
      "chanada"
    ]
  },
  "Adam Barth": {
    "emails": [
      "abarth@webkit.org"
    ],
    "expertise": "Security, HTML parser, webkit-patch, FrameLoader (sadly), V8 Bindings, The Chromium Port",
    "nicks": [
      "abarth"
    ]
  },
  "Adam Roben": {
    "emails": [
      "aroben@webkit.org",
      "aroben@apple.com"
    ],
    "expertise": "Plug-ins and Java (Win, General), WebKit API (Win), Windows build system, General Windows port issues, Developer Tools (Web Inspector), Tools",
    "nicks": [
      "aroben"
    ]
  },
  "Adam Treat": {
    "emails": [
      "treat@kde.org",
      "treat@webkit.org"
    ]
  }
}
"expertise" : "The QtWebKit Port, The HTML Parser/Tokenizer, The platform layer, Image loading and painting, ScrollView and friends",
"nicks" : [ 
"manyoso"
]
},

"Adele Peterson" : { 
"emails" : [ 
"adele@apple.com"
],
"expertise" : "HTML Forms, Security, Layout and Rendering, Web Compatibility (General)",
"nicks" : [ 
"adele"
]
},

"Adrienne Walker" : { 
"emails" : [ 
"enne@google.com",
"enne@chromium.org"
],
"nicks" : [ 
"enne"
]
},

"Alejandro G. Castro" : { 
"emails" : [ 
"alex@igalia.com",
"alex@webkit.org"
],
"expertise" : "WebKitGTK+, Cairo graphics backend, ShadowBlur rendering, Epiphany/WebKit Contributor",
"nicks" : [ 
"alexg__"
]
},

"Alexander Pavlov" : { 
"emails" : [ 
"apavlov@chromium.org",
"pavlov81@gmail.com"
],
"expertise" : "Developer Tools, Web Inspector, CSS OM",
"nicks" : [ 
"apavlov"
]
},

"Alexandru Chiculita" : { 
"emails" : [ 
"achicu@adobe.com"
"expertise" : "CSS Regions, CSS Exclusions, CSS Filters, CSS Custom Filters",
"nicks" : [
  "achicu"
]
},
"Alexey Proskuryakov" : {
  "emails" : [
    "ap@webkit.org",
    "ap@apple.com"
  ],
  "nicks" : [
    "ap"
  ]
},
"Alexis Menard" : {
  "emails" : [
    "alexis@webkit.org",
    "menard@kde.org",
    "alexis.menard@openbossa.org"
  ],
  "expertise" : "The QtWebKit Port, CSS, CSS shorthands, HTML5 Media Elements",
  "nicks" : [
    "darktears"
  ]
},
"Alice Liu" : {
  "emails" : [
    "alice.liu@apple.com"
  ],
  "expertise" : "HTML Editing, Memory Use / Leaks, Core DOM, Web Compatibility (Web Apps), Web Compatibility (General), Bug Mastery, Web Accessibility",
  "nicks" : [
    "aliu"
  ]
},
"Allan Sandfeld Jensen" : {
  "emails" : [
    "allan.jensen@digia.com",
    "kde@carewolf.com",
    "sandfeld@kde.org",
    "allan.jensen@nokia.com"
  ],
  "expertise" : "QtWebKit, CSS Selectors, Touch Adjustment, Hit Testing",
  "nicks" : [
    "carewolf"
  ]
}
"Alp Toker" : {
    "emails" : [
        "alp@nuanti.com",
        "alp@atoker.com",
        "alp@webkit.org"
    ],
    "expertise" : "GTK+ WebKit Port, Cairo graphics backend (including canvas, SVG), CURL HTTP backend",
    "nicks" : [
        "alp"
    ],
},
"Anders Carlsson" : {
    "emails" : [
        "andersca@apple.com",
        "acarlsson@apple.com"
    ],
    "expertise" : "Storage, Networking, Core DOM, Plug-ins and Java (Win, General), XML, JavaScript/ECMAScript",
    "nicks" : [
        "andersca"
    ],
},
"Andreas Kling" : {
    "emails" : [
        "akling@apple.com",
        "kling@webkit.org",
        "awesomekling@apple.com",
        "andreas.kling@nokia.com"
    ],
    "expertise" : "CSS, HTML DOM, Core DOM, Canvas, JavaScript DOM bindings, Memory use",
    "nicks" : [
        "kling"
    ],
},
"Andy Estes" : {
    "emails" : [
        "aestes@apple.com"
    ],
    "expertise" : "Layout and rendering, plug-in loading, HTML parsing, web compatibility",
    "nicks" : [
        "estes"
    ],
},
"Antonio Gomes" : {
    "emails" : [
        "tonikitoo@webkit.org",
        "a1.gomes@sisa.samsung.com",
        "antonio.netto@samsung.com"
    ]}
"antonio.gomes@openbossa.org",
],
"expertise": "[BlackBerry, EFL, QtWebKit ports, Hit testing, Touch/Event handling, Rendering and scrolling",
"nicks": [
"tonikitoo"
]
},
"Antti Koivisto": {
"emails": [
"koivisto@iki.fi",
"antti@apple.com",
"antti.j.koivisto@nokia.com"
]
,"expertise": "HTML DOM, Core DOM, Loader, Cache, CSS OM, style resolve, performance",
"nicks": [
"anttik"
]
},
"Ariya Hidayat": {
"emails": [
"ariya.hidayat@gmail.com",
"ariya@sencha.com",
"ariya@webkit.org"
]
,"expertise": "The QtWebKit Port",
"nicks": [
"ariya"
]
},
"Benjamin Poulain": {
"emails": [
"benjamin@webkit.org",
"bpoulain@apple.com",
"benjamin.poulain@nokia.com",
"ikiipou@gmail.com"
]
,"expertise": "The Rendering, Performance, Mobile stuff, Touch support.",
"nicks": [
"benjaminp"
]
},
"Beth Dakin": {
"emails": [
"bdakin@apple.com"
]
,"expertise": "CSS (Cascading Style Sheets), Layout and Rendering, Resolution-Independence, HTML Parsing, Tables, Web Accessibility",
"nicks" : [ 
    "dethbakin"
],

"Brady Eidson" : { 
    "emails" : [ 
        "beidson@apple.com"
    ], 
    "expertise" : "Networking, Storage, WebCore icon database, Back/forward cache, History", 
    "nicks" : [ 
        "bradee-oh"
    ] 
},

"Brent Fulgham" : { 
    "emails" : [ 
        "bfulgham@webkit.org", 
        "bfulgham@apple.com"
    ], 
    "expertise" : "The WinCairo Port, WebKit on Windows", 
    "nicks" : [ 
        "bfulgham"
    ] 
},

"Brian Weinstein" : { 
    "emails" : [ 
        "bweinstein@apple.com"
    ], 
    "expertise" : "WebKit on Windows, Tools", 
    "nicks" : [ 
        "bweinstein"
    ] 
},

"Caio Marcelo de Oliveira Filho" : { 
    "emails" : [ 
        "cmarcelo@webkit.org", 
        "cmarcelo@gmail.com", 
        "caio.oliveira@openbossa.org"
    ], 
    "nicks" : [ 
        "cmarcelo"
    ] 
},

"Cameron Zwarich" : { 
    "emails" : [ 
        "zwarich@apple.com", 
        "cwzwarich@apple.com", 
        "cwzwarich@webkit.org"
    ]
}
"Carlos Garcia Campos" : {
    "emails" : [
        "cgarcia@igalia.com",
        "carlosgc@gnome.org",
        "carlosgc@webkit.org"
    ],
    "expertise" : "The WebKitGTK+ Port, WebKit2, Glib unicode backend, GTK+ contributor, Epiphany contributor",
    "nicks" : [
        "KaL"
    ]
},
"Chang Shu" : {
    "emails" : [
        "cshu@webkit.org",
        "c.shu@sisa.samsung.com"
    ],
    "expertise" : "JavaScript DOM bindings, WebKit2, QtWebKit port",
    "nicks" : [
        "cshu"
    ]
},
"Chris Blumenberg" : {
    "emails" : [
        "cblu@apple.com"
    ],
    "nicks" : [
        "cblu"
    ]
},
"Chris Fleizach" : {
    "emails" : [
        "cfleizach@apple.com"
    ],
    "expertise" : "Accessibility",
    "nicks" : [
        "cfleizach"
    ]
},
"Chris Jerdonek" : {
    "emails" : [
        "cjerdonek@webkit.org"
    ],
    "nicks" : [
        "cjerdonek"
    ]
}
"Chris Marrin" : {
    "emails" : [
        "cmarrin@apple.com"
    ],
    "nicks" : [
        "cmarrin"
    ]
},
"Chris Rogers" : {
    "emails" : [
        "crogers@google.com"
    ],
    "nicks" : [
        "crogers"
    ]
},
"Christophe Dumez" : {
    "emails" : [
        "dchris@gmail.com",
        "ch.dumez@sisa.samsung.com",
        "christophe.dumez@intel.com"
    ],
    "expertise" : "The EFLWebKit Port, Bindings generator",
    "nicks" : [
        "cdumez"
    ]
},
"Csaba Osztrogon" : {
    "emails" : [
        "ossy@webkit.org"
    ],
    "nicks" : [
        "ossy"
    ]
},
"Dan Bernstein" : {
    "emails" : [
        "mitz@webkit.org",
        "mitz@apple.com"
    ],
    "expertise" : "Layout and Rendering, Bidirectional text",
    "nicks" : [
        "mitzpettel"
    ]
},
"Daniel Bates" : {
    "emails" : [
        "dbates@webkit.org"
    ]}
"expertise" : "XSSAuditor, Drag and Drop, Tools, Perl, svn-apply/unapply",
"nicks" : [
   "dydz"
]
},
"Darin Adler" : {
   "emails" : [
      "darin@apple.com"
   ],
   "expertise" : "HTML Forms, WebKit API (Mac, Win), HTML Editing, Performance, JavaScript/ECMAScript,
   Text Encoding, Core DOM, HTML DOM, Canvas, JavaScript DOM Bindings, ObjC DOM Bindings, Basic types
   and data structures, Tools, New Features / Standards Support, General (probably a good backup on most topics even
   if not specifically an expert)",
   "nicks" : [
      "darin"
   ]
},
"Darin Fisher" : {
   "emails" : [
      "fishd@chromium.org",
      "darin@chromium.org"
   ],
   "expertise" : "The Chromium Port, WebKit API (Chromium), Page Loading",
   "nicks" : [
      "fishd"
   ]
},
"David Harrison" : {
   "emails" : [
      "harrison@apple.com"
   ],
   "expertise" : "HTML Editing, Accessibility",
   "nicks" : [
      "harrison"
   ]
},
"David Hyatt" : {
   "emails" : [
      "hyatt@apple.com"
   ],
   "expertise" : "Layout and Rendering, CSS (Cascading Style Sheets), HTML Forms, Tables, Text Layout, Fonts,
   MathML, Memory Cache, HTMLDOM, Core DOM, HTML Parsing, New Features / Standards Support, XML,
   XSLT, Printing",
   "nicks" : [
      "dhyatt",
      "hyatt"
   ]
}
"David Kilzer" : {
  "emails" : [
    "ddkilzer@webkit.org",
    "ddkilzer@apple.com"
  ],
  "expertise" : "iPhone port, Xcode build system, Tools, Perl, git, WebArchive",
  "nicks" : [
    "ddkilzer"
  ]
},

"David Levin" : {
  "emails" : [
    "levin@chromium.org"
  ],
  "nicks" : [
    "dave_levin"
  ]
},

"Dean Jackson" : {
  "emails" : [
    "dino@apple.com"
  ],
  "expertise" : "Transforms, Transitions, Animations, Filters",
  "nicks" : [
    "dino"
  ]
},

"Dimitri Glazkov" : {
  "emails" : [
    "dglazkov@chromium.org"
  ],
  "expertise" : "The Chromium Port, Shadow DOM, DOM, HTML Forms, Shadow DOM, Web Components, V8 Bindings, InspectorController, garden-o-matic",
  "nicks" : [
    "dglazkov"
  ]
},

"Dirk Pranke" : {
  "emails" : [
    "dpranke@chromium.org"
  ],
  "expertise" : "Build/test infrastructure (stuff under Tools/Scripts)",
  "nicks" : [
    "dpranke"
  ]
},

"Dirk Schulze" : {
"emails" : [
  "krit@webkit.org"
],
"expertise" : "Cairo graphics backend, Canvas, SVG (Scalable Vector Graphics)",
"nicks" : [
  "krit"
],
"emails" : [
  "dimich@chromium.org"
],
"expertise" : "The Chromium Port, Workers, Timers, Threading",
"nicks" : [
  "dimich"
],
"emails" : [
  "gramps@apple.com"
],
"nicks" : [
  "gramps"
],
"emails" : [
  "dumi@chromium.org"
],
"expertise" : "The Chromium Port, WebSQL Databases",
"nicks" : [
  "dumi"
],
"emails" : [
  "esprehn@chromium.org",
  "esprehn+autocc@chromium.org"
],
"expertise" : "Layout and Rendering, V8/JSC Bindings, Generated content, Shadow DOM, Web Compatibility (General)",
"nicks" : [
  "esprehn"
],
"emails" : [
  "eae@chromium.org"
]
"expertise" : "Layout and rendering, Core DOM, HTML DOM",
"nicks" : [  
    "eae"
]
},
"Enrica Casucci" : {
"emails" : [  
    "enrica@apple.com"
],  
"expertise" : "HTML Editing, Drag and drop, Input methods",
"nicks" : [  
    "enrica"
]
},
"Eric Carlson" : {
"emails" : [  
    "eric.carlson@apple.com"
],  
"expertise" : "HTML5 Media Elements",
"nicks" : [  
    "eric_carlson"
]
},
"Eric Seidel" : {
"emails" : [  
    "eric@webkit.org"
],  
"expertise" : "The Rendering Engine, Commit Queue, Memory Leaks, webkit-patch, The Chromium Port",
"nicks" : [  
    "eseidel"
]
},
"Filip Pizlo" : {
"emails" : [  
    "fpizlo@apple.com"
],  
"expertise" : "JavaScript/ECMAScript",
"nicks" : [  
    "pizlo"
]
},
"Gavin Barraclough" : {
"emails" : [  
    "barraclough@apple.com"
],  
"expertise" : "JavaScript/ECMAScript",
"nicks" : [  

"gbarra"
],

"Geoffrey Garen" : {
    "emails" : [
        "ggaren@apple.com"
    ],
    "expertise" : "JavaScript/ECMAScript, Performance, Memory Use / Leaks, Memory Cache, Core DOM, HTML DOM, JavaScript DOM Bindings, Web Compatibility (General), JavaScriptCore C API, FastMalloc",
    "nicks" : [
        "ggaren"
    ]
},

"George Staikos" : {
    "emails" : [
        "staikos@kde.org",
        "staikos@webkit.org"
    ],
    "expertise" : "Core KHTML Contributor, The QtWebKit Port"
},

"Gustavo Noronha Silva" : {
    "emails" : [
        "gns@gnome.org",
        "kov@webkit.org",
        "gustavo.noronha@collabora.co.uk",
        "gustavo.noronha@collabora.com"
    ],
    "expertise" : "WebKitGTK+ API, Soup HTTP backend, Debian Packaging, A little bit of Epiphany",
    "nicks" : [
        "kov"
    ]
},

"Gyuyoung Kim" : {
    "emails" : [
        "gyuyoung.kim@samsung.com",
        "gyuyoung.kim@webkit.org"
    ],
    "expertise" : "The EFLWebKit Port",
    "nicks" : [
        "gyuyoung"
    ]
},

"Hajime Morrita" : {
    "emails" : [
        "morrita@google.com",
        "morrita@chromium.org"
    ],
    "nicks" : [        "morrita"
    ]
}
"morrita"
]
},
"Holger Freyther" : {
  "emails" : [
    "zecke@selfish.org",
    "zecke@webkit.org"
  ],
  "expertise" : "The QtWebKit Port, The GTK+ WebKit Port",
  "nicks" : [
    "zecke"
  ]
},
"James Robinson" : {
  "emails" : [
    "jamesr@chromium.org",
    "jamesr@google.com"
  ],
  "expertise" : "Layout, rendering, the Chromium port.",
  "nicks" : [
    "jamesr"
  ]
},
"Jan Alonzo" : {
  "emails" : [
    "jmalonzo@gmail.com",
    "jmalonzo@webkit.org"
  ],
  "expertise" : "The WebKitGtk Port, Autotools Build",
  "nicks" : [
    "jamm"
  ]
},
"Jer Noble" : {
  "emails" : [
    "jer.noble@apple.com"
  ],
  "nicks" : [
    "jernoble"
  ]
},
"Jeremy Orlow" : {
  "emails" : [
    "jorlow@webkit.org",
    "jorlow@chromium.org"
  ],
  "expertise" : "The Chromium Port, DOM Storage (i.e., LocalStorage and SessionStorage)",
  "nicks" : [}
"jorlow"
],
"Jessie Berlin" : {
  "emails" : [
    "jberlin@webkit.org",
    "jberlin@apple.com"
  ],
  "nicks" : [
    "jessieberlin"
  ],
  "Jian Li" : {
    "emails" : [
      "jianli@chromium.org"
    ],
    "expertise" : "The Chromium Port, Workers, File API, FormData",
    "nicks" : [
      "jianli"
    ],
    "Jocelyn Turcotte" : {
      "emails" : [
        "jocelyn.turcotte@digia.com",
        "jocelyn.turcotte@nokia.com"
      ],
      "expertise" : "The QtWebKit port, Tools, Loader, Rendering, Accelerated Compositing",
      "nicks" : [
        "jturcotte"
      ],
      "Jochen Eisinger" : {
        "emails" : [
          "jochen@chromium.org",
          "jochen@chromium.or"
        ],
        "nicks" : [
          "jochen__"
        ],
        "John Sullivan" : {
          "emails" : [
            "sullivan@apple.com"
          ],
          "expertise" : "Safari UI, Printing",
          "nicks" : [
            "sullivan"
          ]
        }
      }
    }
  }
}
"Jon Honeycutt" : {
    "emails" : [
        "jhoneycutt@apple.com"
    ],
    "expertise" : "WebKit on Windows, Plug-ins, Windows accessibility",
    "nicks" : [ 
        "jhoneycutt"
    ]
},
"Joseph Pecoraro" : {
    "emails" : [
        "joepeck@webkit.org",
        "pecoraro@apple.com"
    ],
    "expertise" : "Web Inspector",
    "nicks" : [ 
        "JoePeck"
    ]
},
"Julien Chaffraix" : {
    "emails" : [
        "jchaffraix@webkit.org",
        "julien.chaffraix@gmail.com",
        "jchaffraix@google.com",
        "jchaffraix@codeaurora.org"
    ],
    "expertise" : "Layout and rendering, Tables, XMLHttpRequest",
    "nicks" : [ 
        "jchaffraix"
    ]
},
"Justin Garcia" : {
    "emails" : [
        "justin.garcia@apple.com"
    ],
    "expertise" : "Multipart Mixed Replace, HTML Editing",
    "nicks" : [ 
        "justing"
    ]
},
"Ken Kocienda" : {
    "emails" : [
        "kocienda@apple.com"
    ]
},
"Kenneth Rohde Christiansen" : {
    "emails" : [ 

"kenneth@webkit.org",
"kenneth.r.christiansen@intel.com",
"kenneth.christiansen@gmail.com"
],
"expertise": "WebKit/WebKit2 API, The Qt and EFL WebKit Port, Mobile Adapations, Frame Flattening, Mobile Viewport Handling, Input methods.",
"nicks": [
"kenneth_",
"kenneth",
"kenne"
]
},
"Kenneth Russell": {
"emails": [
"kbr@google.com",
"kbr@chromium.org"
],
"expertise": "WebGL (Chromium and Safari ports), Canvas",
"nicks": [
"kbr_google",
"kbrgg"
]
},
"Kent Tamura": {
"emails": [
"tkent@chromium.org",
"tkent@google.com"
],
"expertise": "HTML Forms, DumpRenderTree for Chromium, The Chromium Port",
"nicks": [
"tkent"
]
},
"Kentaro Hara": {
"emails": [
"haraken@chromium.org"
],
"expertise": "V8 bindings, JSC bindings, Perl scripts, Garbage collection, DOM lifetime",
"nicks": [
"haraken"
]
},
"Kevin Decker": {
"emails": [
"kdecker@apple.com"
],
"expertise": "Safari UI, Plug-ins and Java (Mac, General), Enterprise Application Compatibility",
"nicks": [
"superkevin"
},
"Kevin McCullough" : {
"emails" : [
"kmccullough@apple.com"
],
"expertise" : "JavaScript/ECMAScript, Developer Tools (Web Inspector, JavaScript Profilier), Web Compatibility (Web Apps)",
"nicks" : [
"maculloch"
]
},
"Kevin Ollivier" : {
"emails" : [
"kevino@theolliviers.com",
"kevino@webkit.org"
],
"expertise" : "The wkWebKit Port, Bakefile build system",
"nicks" : [
"kollivier"
]
},
"Lars Knoll" : {
"emails" : [
"lars@trolltech.com",
"lars@kde.org",
"lars.knoll@nokia.com"
],
"expertise" : "Original author of KHTML which WebKit is based on, The QtWebKit Port, Layout and Rendering, CSS (Cascading Style Sheets), HTML Forms, Tables, HTML DOM, Core DOM, HTML Parsing",
"nicks" : [
"lars"
]
},
"Laszlo Gombos" : {
"emails" : [
"laszlo.gombos@webkit.org",
"l.gombos@samsung.com",
"laszlo.gombos@gmail.com",
"laszlo.l.gombos@nokia.com"
],
"expertise" : "The QtWebKit Port",
"nicks" : [
"lgombos"
]
},
"Levi Weintraub" : {
}
"emails" : [  
  "leviw@chromium.org",
  "leviw@google.com",
  "lweintraub@apple.com"
],

"expertise" : "Layout (bidi and line layout, sub-pixel positioning), svg, editing",

"nicks" : [  
  "leviw"
],

"Luiz Agostini" : {  
  "emails" : [  
    "luiz@webkit.org",
    "luiz.agostini@openbossa.org"
  ],
  "expertise" : "The QtWebKit Port",
  "nicks" : [  
    "lca"
  ]
},

"Maciej Stachowiak" : {  
  "emails" : [  
    "mjs@apple.com"
  ],
  "expertise" : "JavaScript/ECMAScript, Performance, Security, Basic types and data structures, FastMalloc, DOM Bindings for JavaScript, Core DOM, HTML DOM, JavaScript DOM Bindings, WebKit API (Mac, Win), HTML Editing, Networking, Tools, New Features / Standards Support, General (probably a good backup on most topics even if not specifically an expert)",
  "nicks" : [  
    "othermaciej"
  ]
},

"Mark Hahnenberg" : {  
  "emails" : [  
    "mhahnenberg@apple.com"
  ],
  "expertise" : "JavaScript/ECMAScript",
  "nicks" : [  
    "mhahnenberg"
  ]
},

"Mark Rowe" : {  
  "emails" : [  
    "mrowe@apple.com"
  ],
  "expertise" : "Build/Release Engineering, Malloc, FastMalloc",
  "nicks" : [  
    "bdash"  
  ]}
"Martin Robinson" : {
  "emails" : [
    "mrobinson@webkit.org",
    "mrobinson@igalia.com",
    "martin.james.robinson@gmail.com"
  ],
  "expertise" : "The WebKitGTK+ Port, Cairo graphics backend, soup HTTP backend",
  "nicks" : [
    "mrobinson"
  ]
},

"Michael Saboff" : {
  "emails" : [
    "msaboff@apple.com"
  ],
  "expertise" : "JavaScript/ECMAScript",
  "nicks" : [
    "msaboff"
  ]
},

"Mihai Parparita" : {
  "emails" : [
    "mihaip@chromium.org"
  ],
  "expertise" : "The Chromium Port, Layout tests, History",
  "nicks" : [
    "mihaip"
  ]
},

"Nate Chapin" : {
  "emails" : [
    "japhet@chromium.org"
  ],
  "expertise" : "The Chromium Port, V8 Bindings",
  "nicks" : [
    "japhet",
    "natechapin"
  ]
},

"Nico Weber" : {
  "emails" : [
    "thakis@chromium.org",
    "thakis@google.com"
  ],
  "expertise" : "The Chromium Port, Graphics, Skia, CoreGraphics",
  "nicks" : [

"thakis"
],

"Nikolas Zimmermann" : {
	"emails" : [
		"zimmermann@kde.org",
		"zimmermann@physik.rwth-aachen.de",
		"zimmermann@webkit.org",
		"nzimmermann@blackberry.com",
		"nzimmermann@rim.com"
	],
	"expertise" : "Core KHTML contributor, The QtWebKit Port, Text Layout, JavaScript DOM bindings, Code generation in general, XML, SVG (Scalable Vector Graphics)",
	"nicks" : [
		"wildfox"
	]
},

"Noam Rosenthal" : {
	"emails" : [
		"noam@webkit.org",
		"noam.rosenthal@nokia.com"
	],
	"expertise" : "TextureMapper, graphics for the Qt port",
	"nicks" : [
		"noamr"
	]
},

"Ojan Vafai" : {
	"emails" : [
		"ojan@chromium.org",
		"ojan.autocc@gmail.com"
	],
	"expertise" : "Selections, Editing, webkit-patch, run-webkit-tests, The Chromium port, HTML Forms, Layout and Rendering, Web Compatibility (General)",
	"nicks" : [
		"ojan"
	]
},

"Oliver Hunt" : {
	"emails" : [
		"oliver@apple.com"
	],
	"expertise" : "JavaScript/ECMAScript, FastMalloc",
	"nicks" : [
		"olliej"
	]
},

"Pavel Feldman" : {

"emails"
"pfeldman@chromium.org",
"pfeldman@google.com"
],
"expertise" : "Developer Tools, Web Inspector",
"nicks" : [
"pfeldman"
]
},
"Philip Rogers" : {
"emails" : [
"pdr@google.com",
"pdr@chromium.org"
],
"expertise" : "SVG (Scalable Vector Graphics)",
"nicks" : [
"pdr"
]
},
"Philippe Normand" : {
"emails" : [
"pnormand@igalia.com",
"philn@webkit.org",
"philn@igalia.com"
],
"expertise" : "WebKitGTK+, Media support (focused on the GStreamer implementation)",
"nicks" : [
"philn"
]
},
"Richard Williamson" : {
"emails" : [
"rjw@apple.com"
],
"nicks" : [
"rjw"
]
},
"Rob Buis" : {
"emails" : [
"rwlbuis@gmail.com",
"rwlbuis@webkit.org",
"rbuis@blackberry.com",
"rbuis@rim.com"
],
"expertise" : "KDE contributor, The QtWebKit Port, SVG (Scalable Vector Graphics)",
"nicks" : [
"rwlbuis"
]
"Ryosuke Niwa" : {
  "emails" : [
    "rniwa@webkit.org"
  ],
  "expertise" : "HTML Editing, Core DOM, HTML DOM, Event Handling",
  "nicks" : [
    "rniwa"
  ],
},
"Sam Weinig" : {
  "emails" : [
    "sam@webkit.org",
    "weinig@apple.com"
  ],
  "expertise" : "HTML DOM, Core DOM, DOM Bindings (JavaScript, Objective-C and COM), Security, DumpRenderTree",
  "nicks" : [
    "weinig"
  ],
},
"Shinichiro Hamaji" : {
  "emails" : [
    "hamaji@chromium.org"
  ],
  "expertise" : "CSS (Cascading Style Sheets), Tools",
  "nicks" : [
    "hamaji"
  ],
},
"Simon Fraser" : {
  "emails" : [
    "simon.fraser@apple.com"
  ],
  "expertise" : "Accelerated Compositing, Transitions and Animations, CSS Transforms",
  "nicks" : [
    "smfr"
  ],
},
"Simon Hausmann" : {
  "emails" : [
    "hausmann@webkit.org",
    "hausmann@kde.org",
    "simon.hausmann@digia.com"
  ],
  "expertise" : "The QtWebKit Port, Former KHTML contributor",
  "nicks" : [

"tronical"
],
"Stephanie Lewis" : {
  "emails" : [  
    "slewis@apple.com"
  ],
  "expertise" : "Performance Testing, Tools",
  "nicks" : [  
    "sundiamonde"
  ]
},
"Stephen Chenney" : {
  "emails" : [  
    "schenney@chromium.org"
  ],
  "expertise" : "SVG (Scalable Vector Graphics)",
  "nicks" : [  
    "schenney"
  ]
},
"Stephen White" : {
  "emails" : [  
    "senorblanco@chromium.org"
  ],
  "expertise" : "Skia port, GPU acceleration",
  "nicks" : [  
    "senorblanco"
  ]
},
"Steve Block" : {
  "emails" : [  
    "steveblock@chromium.org",
    "steveblock@google.com"
  ],
  "expertise" : "Geolocation, Android Port",
  "nicks" : [  
    "steveblock"
  ]
},
"Steve Falkenburg" : {
  "emails" : [  
    "sfalken@apple.com"
  ],
  "expertise" : "WebKit on Windows",
  "nicks" : [  
    "sfalken"
  ]
}
"Tim Horton" : {
    "emails" : [
        "thorton@apple.com",
        "timothy_horton@apple.com"
    ],
    "expertise" : "SVG/Canvas/Graphics, WebKit2",
    "nicks" : [
        "thorton"
    ],
},
"Tim Omernick" : {
    "emails" : [
        "timo@apple.com"
    ],
},
"Timothy Hatcher" : {
    "emails" : [
        "timothy@apple.com",
        "timothy@hatcher.name"
    ],
    "expertise" : "WebKit API (Mac), WebKit Web Site, Developer Tools (Web Inspector, JavaScript Debugger)",
    "nicks" : [
        "xenon"
    ],
},
"Tony Chang" : {
    "emails" : [
        "tony@chromium.org"
    ],
    "expertise" : "Chromium Linux, Editing, Drag and Drop",
    "nicks" : [
        "tony^work"
    ],
},
"Tony Gentilcore" : {
    "emails" : [
        "tonyg@chromium.org"
    ],
    "expertise" : "HTML5 parsing, Web Timing",
    "nicks" : [
        "tonyg-cr"
    ],
},
"Tor Arne Vestbu00f8" : {
    "emails" : [
        "vestbo@webkit.org",
        "tor.arne.vestbo@nokia.com"
    ]}
"expertise" : "The QtWebKit Port, HTML5 Media Elements, Plug-ins, Tools",
"nicks" : [
    "torarne"
],
"Vicki Murley" : {
    "emails" : [
        "vicki@apple.com"
    ],
    "expertise" : "Developer Tools, Web Inspector",
    "nicks" : [
        "vsevik"
    ]
},
"Vsevolod Vlasov" : {
    "emails" : [
        "vsevik@chromium.org"
    ],
    "expertise" : "Developer Tools, Web Inspector",
    "nicks" : [
        "vsevik"
    ]
},
"Xan Lopez" : {
    "emails" : [
        "xan.lopez@gmail.com",
        "xan@gnome.org",
        "xan@webkit.org",
        "xlopez@igalia.com"
    ],
    "expertise" : "WebKitGTK+, Soup HTTP Backend, libsoup Contributor, WebKit a11y (focused on the ATK implementation), Epiphany/WebKit maintainer",
    "nicks" : [
        "xan"
    ]
},
"Yong Li" : {
    "emails" : [
        "yong.li.webkit@outlook.com"
    ],
    "nicks" : [
        "yong"
    ]
},
"Yury Semikhatsky" : {
    "emails" : [
        "yurys@chromium.org"
    ],
    "expertise" : "Developer Tools, Web Inspector",
    "nicks" : [
        "yurys"
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Version 3, 29 June 2007
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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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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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/* A Bison parser, made by GNU Bison 2.4.3. */

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1.464 resourceproto 1.2.0-r1

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

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

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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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1.469 rpmsg-proxy-app 1.0-r0

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1.470 rrdtool 1.6.0

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RRDTOOL - Round Robin Database Tool
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Aaron Gallagher <_ with habnab.it> MEDIAN operator
Benny Baumann <benbe with geshi.org) rrd_dump with callback support
Bernard Fischer <bfischer with syslog.ch> 64bit stuff, --alt-autoscale-max
Bernhard Fischer <rep dot dot dot nop with gmail.com> MMAP rewrite
Bill Fenner <fenner with research.att.com>
Blair Zajac <bzaic with geostaff.com>
Bruce Campbell <bruce.campbell with apnic.net>
Chin-A-Young <china with thewrittenword.com>
Christophe VG <Christophe.VanGinneken with ubizen.com>
Christophe Van Ginneken <Christophe.VanGinneken with ubizen.com> (--no-legend)
Dan Dunn <dandum with computer.org>
Daniel Pocock <daniel in pocock.com.au> rrd_create to mmap port
Dave Bodenstab <dave@bodenstab.org> AT style time in update, tclfixes
David Grimes <dgrimes with navisite.com> SQRT/SORT/REV/SHIFT/TREND
David L. Barker <dave with ncomtech.com> xport function bug fixes
Evan Miller <emiller with invmu.com> Multiplicative HW Enhancements
Frank Strauss <strauss with escape.de> TCL bindings
Florian octo Forster <rrdtool nospam.verplant.org> rrd_restore libxml2 rewrite, deprecated function export, rrdcached
Fidelis Assis <fidelis pobox.com> lua bindings
Henrik Storner <henrik with hswn.dk> functions for min/max values of data in graph
Hermann Hueni <hueni with glue.ch> (SunOS porting)
Jakob Ilves <jilves with se.oracle.com> HPUX 11
Jeff R. Allen <jeff.allen with acm.org> (autoconfigure, portability)
Jeremy Fischer <jeremy with pobox.com> (Makefile changes & RPM builds)
Jess Couto Fandio
Joel Becker <jlbec with raleigh.ibm.com> AIX
Joey Miller <joeym with inficad.com> php3 and php4 bindings
Kai Siering <kai.siering with mediaways.net>
Kevin Brintnall <kbrint with rufus.net> bugfixes in and additions to rrdcached, including journaling support

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Melchori Rabe <rrdtool at mrab.de> -- legend position patch
McCreary mcckreary with xoanon.colorado.edu
Mike Mitchell <mcm with unix.sas.com>
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Oleg Cherevko <olwi with icyb.kiev.ua>
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Roman Hoogant <rhogant with ee.ethz.ch>
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Roger J. Meier <roger.meier in terreactive.ch> (arbitrary linelength in rrdtool)
Russ Wright <rwright with home.com>
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Simon Leinen <simon with switch.ch>
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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
  )
```

```ruby
require 'rubygems/text'
class Gem::Licenses
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  # Software Package Data Exchange (SPDX) standard open-source software
  # license identifiers
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    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
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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
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CC-BY-NC-SA-2.0
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CC-BY-NC-SA-3.0
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CC-BY-ND-4.0
CC-BY-SA-1.0
CC-BY-SA-2.0
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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
CIArtistic
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
Frameworx-1.0
FreelImage
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
IJI
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
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
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W3C-19980720
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Watcom-1.0
Wsuipa
X11
XFree86-1.1
XSkat
Xerox
Xnet
YPL-1.0
YPL-1.1
ZPL-1.1
ZPL-2.0
ZPL-2.1
Zed
Zend-2.0
Zimbra-1.3
Zimbra-1.4
Zlib
bzip2-1.0.5
bzip2-1.0.6
diffmark
dvipdfm
eGenix
gSOAP-1.3b
gnuplot
iMatix
libtiff
mpich2
psfrag
psutils
xinetd
xpp
zlib-acknowledgement

REGEXP = %r{
  \A
  (#{Regexp.union(IDENTIFIERS)}\+?
    (\s WITH \s .+)?
    | #{NONSTANDARD}
  )
  \Z
}ox.freeze

def self.match?(license)
  !REGEXP.match(license).nil?
end

def self.suggestions(license)
  by_distance = IDENTIFIERS.group_by do |identifier|
    levenshtein_distance(identifier, license)
  end
  lowest = by_distance.keys.min
  return unless lowest < license.size
  by_distance[lowest]
end

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can/build_assert/build_assert.h
can/check_type/check_type.h
can/container_of/container_of.h
can/str/str.h
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can/list/list.h

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include/ruby/oniguruma.h:
regcomp.c:
regenc.[ch]:
regerror.c:
regexec.c:
regint.h:
regparse.[ch]:
enc/ascii.c
enc/big5.c
enc/cp949.c
enc/emacs_mule.c
enc/encdb.c
enc/euc_dp.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
cenc/iso_8859_14.c
cenc/iso_8859_15.c
cenc/iso_8859_16.c
cenc/iso_8859_2.c
cenc/iso_8859_3.c
cenc/iso_8859_4.c
cenc/iso_8859_5.c
cenc/iso_8859_6.c
cenc/iso_8859_7.c
cenc/iso_8859_8.c
cenc/iso_8859_9.c
cenc/koi8_r.c
cenc/koi8_u.c
cenc/shift_jis.c
cenc/unicode.c
cenc/us_ascii.c
cenc/utf_16be.c
cenc/utf_16le.c
cenc/utf_32be.c
cenc/utf_32le.c
cenc/utf_8.c
cenc/windows_1251.c

Oniguruma ---- (C) K.Kosako <sndgk393 AT ybb DOT ne DOT jp>

http://www.geocities.jp/kosako3/oniguruma/
http://www.ruby-lang.org/cgi-bin/cvsweb.cgi/oniguruma/
http://www.freebsd.org/cgi/cvsweb.cgi/ports/devel/oniguruma/

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enc/trans/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:
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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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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
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vm_dump.c:procstat_vm

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strftime.c:
include/ruby/st.h:
missing/acosh.c:
missing/alloca.c:
missing/dup2.c:
missing/erf.c:
missing/finite.c:
missing/hypot.c:
missing/isinf.c:
missing/isnan.c:
missing/lgamma_r.c:
missing/memcmp.c:
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missing/strchr.c:
missing/strcmp.c:
missing/strstr.c:
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missing/strlcpy.c

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

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The following list might be incomplete. Feel free to add your name if your patch was accepted into Ruby.

== A

Ayumu AIZAWA (ayumin)
* committer

AKIYOSHI, Masamichi (akiyoshi)
* committer
* He had maintained the VMS support on 2003-2004.

Muhammad Ali
* wrote rdoc for Fiber

Minero Aoki (aamine)
* committer
* He is the maintainer of:
* fileutils
* net/http, net/https
* net/pop
* net/smtp
* racc
* ripper
* strscan

Wakou Aoyama (wakou)
* committer
* He was the maintainer of some standard libraries.

Koji Arai
* committer

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

== B

Daniel Berger
* a patch for irb
* documentation
* He wrote forwardable.rb

David Black (dblack)
* committer
* He is the maintainer of scanf

Ken Bloom
* a patch for REXML.

Oliver M. Bolzer
* a patch for soap

Alexey Borzenkov
* a patch for mkmf.rb

Richard Brown
* a patch for configure.in

Dirkjan Bussink
* a patch for date.rb

Daniel Bovensiepen
* documentation
* a patch for irb

== C

Brian Candler
* a patch for configure.in, net/telnet

keith cascio
* a patch for optparse.rb

Frederick Cheung
* a patch for test/ruby/test_symbol.rb

Christoph
* patches for set.rb

Sean Chittenden
* patches for net/http, cgi
William D. Clinger
* ruby_strtod is based on his paper.

== D

Ryan Davis (ryan)
* committer
* He wrote and is the maintainer of miniunit

Guy Decoux (ts)
* committer

Zach Dennis

Martin Duerst (duerst)
* committer
* M17N

Paul Duncan
* pathces for rdoc

Alexander Dymo
* a patch for lib/benchmark.rb

== E

Yusuke Endoh (mame)
* committer
* He wrote and is the maintainer of base64 library (1.9)
* did much upon YARV compiler.

erlercw
* wrote Integer::gcd2

== F

Frank S. Fejes
* a patch for net/pop

Fundakowski Feldman
* a patch for process.c

Mauricio Fernandez
* patches for parse.y

David Flanagan (davidflanagan)
* committer
* M17N

Takeyuki Fujioka (xibbar)
* committer
* He is the maintainer of cgi/*

FUKUMOTO, Atsushi
* a patch for tracer.rb

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

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

== G

David M. Gay
* ruby_strtod

Florian Gilcher
* documentation

GOTOU, Kentaro (gotoken)
* committer
* He wrote benchmark.rb
* He is the maintainer of:
benchmark.rb
* open3

GOTOU, Yuuzou (gotoyuzo)
* committer

James Edward Gray II (jeg2)
* committer
* He wrote the faster implementation of CSV and is the maintainer of csv.
* Wrote documentation for rdoc

== H

Phil Hagelberg
* patch for ruby-mode.el's documentation.
Kirk Haines (wyhaines)
* committer
* the maintainer of ruby_1_8_6 branch

Shinichiro Hamaji
* fixed memory leaks (marshal.c, string.c)

Shin-ichiro HARA
* the developer and the sysop of ruby-{dev,list,core,talk} archive.
* a patch for numeric.c

Chris Heath (traumdeutung)
* a patch for proc.c

HIROKAWA Hisashi
* fixed socket/socket.c

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

Eric Hodel (drbrain)
* committer
* He is the maintainer of:
* rdoc
* ri
* rubygems

Erik Hollensbe
* a patch for delegate.rb

Johan Holmberg
* a patch for dir.c
* documentation

Erik Huelsmann

Dae San Hwang
* built a continuous integration environment on OpenSolaris.

== I

Nobuhiro IMAI
* a patch for logger.rb

"incorporate"
* a patch for sprintf.c
Keiju Ishitsuka (keiju)
* committer
* He wrote and is the maintainer of:
  * cmath.rb (1.9)
  * complex.rb (1.8)
  * e2mmmap.rb
  * forwardable.rb
  * irb
  * mathn
  * matrix.rb
  * mutex_m.rb
  * rational.rb (1.8)
  * sync.rb
  * shell/*
  * thwait.rb
  * tracer.rb

== J

Curtis Jackson
* missing/dup2.c

Alan Johnson
* a patch for net/ftp

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

== K

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

Yutaka Kanemoto
* patches for common.mk, AIX AF_INET6 support

Motoyuki Kasahara
* He wrote getoptlong.rb

Masahiro Kawato
* a patch for shellwords.rb

Wataru Kimura
* a patch for configure.in

Michael Klishin
* patch for make help.

Noritada Kobayashi
* a patch for optparse.rb

Shigeo Kobayashi (shigek)
* committer
* He is the maintainer of bigdecimal

KONISHI, Hiromasa (H_Konishi)
* committer
* He had maintained the bcc32 support in 2004.

Kornelius "murphy" Kalnbach
* documentation

K.Kosako (kosako)
* committer
* He wrote Oniguruma.

Takehiro Kubo
* patches for dl 64bit support.

== L

Marc-Andre Lafortune (marcandre)
* committer
* patches for hash.c, array.c, thread.c, enumc, string.c, range.c and rdoc documentation.

Hongli Lai
* improved pstore.rb
* patch for tool/file2lastrev.rb.

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

Christian Loew
* a patch for fileutils.rb

== M

Shugo Maeda (shugo)
* committer
* A system administrator of ruby-lang.org servers.
* He wrote and is the maintainer of:
  * monitor.rb
  * net/ftp
  * net/imap
Stephan Maka (mathew)
* documentation

Yukihiro Matsumoto (matz)
* Matz -- the founder, language designer of Ruby.
* committer
* Ruby itself, most of Ruby.
* He is the maintainer of:
  * singleton
  * timeout
  * gdbm
  * sdbm

Konrad Meyer
* documentation

Mib Software
* missing/vsnprintf.c

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

MIYASAKA, Masaru
* a patch for cgi.rb

Stefan Monnier
* regex.c was fixed with based on his Emacs21 patch.

Marcel Moolenaar
* patches for eval.c and gc.c.

moonwolf
* a patch for REXML, xmlrpc

Hiroshi Moriyama
* a patch for yaml.

Kyosuke Morohashi
* a patch for gem_prelude.rb

Kenta Murata
* patches for json, bignum.c

Akinori MUSHA (knu)
* committer
* He wrote and is the maintainer of:
* abbrev.rb
* generator (1.8)
* enumerator (1.8)
* set
* ipaddr.rb
* digest/*
* syslog
* He is the branch maintainer of ruby_1_8, the release manager of 1.8 series.

== N

Hidetoshi NAGAI (nagai)
* committer
* He is the maintainer of tk/*

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

Narihiro Nakamura (nari)
* committer
* a.k.a. authorNari
* working at GC

NAKAMURA, Hiroshi (nahi)
* committer
* He is the maintainer of:
  * csv.rb (1.8)
  * logger.rb
  * soap/* (1.8)
  * wsdl/* (1.8)
  * xsd/* (1.8)

NAKAMURA, Usaku (usa)
* committer
* a.k.a. unak
* He is the maintainer of mswin32 and mswin64 support.

NARUSE, Yui (naruse)
* committer
* a.k.a. "nurse"
* Did much upon m17n.
* He is the maintainer of:
  * json
  * nkf

Christian Neukirchen
* a patch for webrick/httputils

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

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

pegacorn
* a patch for instruby.rb

Gaston Ramos
* documentation

The Regents of the University of California
* missing/crypt.c
* missing/vsnprintf.c

Sam Roberts
* patch for socket
* documentation

Michal Rokos (michal)
* committer
* He was the maintainer of DJGPP support.

rubikitch
* a patch for io.c

Marcus Rueckert
* a patch for mkconfig.rb.

Run Paint Run Run
* patch for enc/unicode.c
* documentation

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

Kazuo Saito (ksaito)
* committer
* M17N

Tadashi Saito
* patches for test/ruby/test_math.rb, thread_*..c, bignum.c
* working upon BigDecimal.
* did much upon documentation

Masahiro Sakai
* a patch for io.c

Laurent Sansonetti
* a patch for tool/ytab.sed

Jeff Saracco
* documentation

Koichi Sasada (ko1)
* committer
* He wrote YARV.

Hugh Sasse
* a patch for net/http
* documentation

Charlie Savage
* a patch for win32/Makefile.sub

Michael Scholz
* a patch for ruby-mode.el

Arthur Schreiber
* patch for net/http and rdoc.

Masatoshi SEKI (seki)
* 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 Šuketa (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 forcgi.rb

Jakub Travnik
* a patch for eval.c

Tom Truscott
* missing/crypt.c

== U

UEDA, Satoshi
* a patch foruri

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 ofruby_1_8_6 and ruby_1_8_7
* and is the release manager of 1.8.x-pXXX.

== V

Joel VanderWerf
* a patch fornumeric.c

Peter Vanbroekhoven

Corinna Vinschen

== W

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

Chun Wang
* a patch for time.rb
WATANABE, Hiroyumi (eban)
* committer
* He is the maintainer of
  * fools (1.8)
  * tmpdir
  * un
  * Win32API

WATANABE, Tetsuya
* a patch for ruby.c

William Webber (wew)
* committer

Jim Weirich (jim)
* committer
* He wrote Rake.

Nathan Weizenbaum
* fixed misc/ruby-mode.el.

why the lukky stiff (why)
* committer
* He is the maintainer of syck

Caley Woods
* documentation

Gary Wright
* documentation

== X

== Y

Akira Yamada (akira)
* committer
* He is the maintainer of ruby related packages at Debian project.

Keita Yamaguchi
* patches for enum.c, parse.y
* documentation

Hirokazu Yamamoto (ocean)
* committer

Hirotaka Yoshioka
* a patch for improving SEGV handling

== Z

Aristarkh A Zagorodnikov
* a patch for io.c

Alexander Zavorine
* committer
* He is the maintainer for Symbian OS.

Chiyuan Zhang
* a patch for misc/ruby-mode.el.

Dee Zsombor (zunda)
* a patch for thread_pthread.c

Dan Zwell
* a patch for net/pop

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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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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 the application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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

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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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1.475 screen 4.6.1-r0

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.
Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

TERMS AND CONDITIONS

0. Definitions.

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

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

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

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

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

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

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

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


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

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

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

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

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

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

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5. Conveying Modified Source Versions.

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

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

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

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

6. Conveying Non-Source Forms.

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

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

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

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

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

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

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

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

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

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

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1.485 shared-mime-info 1.8 -r0

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For the files subversion/libsvn_subr/x509parse.c and subversion/libsvn_subr/x509.h

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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
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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.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
SATO, Yuichi
Sanchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frédric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frédric
Marchvius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
Regueiro, Leandro
Sarér, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

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

1.500 swig-native 3.0.12 -r0
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This package was debianized by Paul Russell <prussell@debian.org> on Sun, 31 Mar 2002 14:08:57 +0200.

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Active SWIG Developers:
William Fulton (wsf@fultondesigns.co.uk) (SWIG core, Java, C#, Windows, Cygwin)
Olly Betts (olly@survex.com) (PHP)
Joseph Wang (joequant@gmail.com) (R)
Xavier Delacour (xavier.delacour@gmail.com) (Octave)
David Nadlabio (luigi.ballabio@fastwebnet.it) (D)
Oliver Buchtala (oliver.buchtala@gmail.com) (Javascript)
Neha Narang (narangneha03@gmail.com) (Javascript)
Simon Marchetto (simon.marchetto@scilab-enterprises.com) (Scilab)

Past SWIG developers and major contributors include:
Dave Beazley (dave-swig@dabeaz.com) (SWIG core, Python, Tcl, Perl)
Henning Thielemann (swig@henning-thielemann.de) (Modula3)
Matthias Kppe (mkopepe@mail.math.uni-magdeburg.de) (Guile, MzScheme)
Luigi Ballabio (luigi.ballabio@fastwebnet.it) (STL wrapping)
Mikel Bancroft (mikel@franz.com) (Allegro CL)
Surendra Singhi (efuzzystone@netscape.net) (CLISP, CFFI)
Marcelo Matus (mmaratus@acms.arizona.edu) (SWIG core, Python, UTL[python,perl,tcl,ruby])
Art Yerkes (ayerkes@speakeasy.net) (Ocaml)
Lyle Johnson (lyle@users.sourceforge.net) (Ruby)
Charlie Savage (cfs@interserv.com) (Ruby)
Thien-Thi Nguyen (ttv@glug.org) (build/test/misc)
Richard Palmer (richard@magicality.org) (PHP)
Sam Liddicott - Ananova Ltd (saml@liddicott.com) (PHP)
Tim Hockin - Sun Microsystems (thockin@sun.com) (PHP)
Kevin Ruland (PHP)
Shibukawa Yoshiki (Japanese Translation)
Jason Stewart (jason@openinformatics.com) (Perl5)
Loic Dachary (Perl5)
David Fletcher (Perl5)
Gary Holt (Perl5)
Masaki Fukushima (Ruby)
Scott Michel (scottm@cs.ucla.edu) (Java directors)
Tiger Feng (songyanf@cs.uchicago.edu) (SWIG core)
Mark Rose (mrose@stm.lbl.gov) (Directors)
Jonah Beckford (beckford@usermail.com) (CHICKEN)
Ahmon Dancy (dancy@franz.com) (Allegro CL)
Dirk Gerrits (Allegro CL)
Neil Cawse (C#)
Harco de Hilster (Java)
Alexey Dyachenko (dyachenko@fromru.com) (Tcl)
Bob Teichentin (Tcl)
Martin Froehlich <MartinFroehlich@ACM.org> (Guile)
Marcio Luis Teixeira <marciot@holly.colostate.edu> (Guile)
Duncan Temple Lang (R)
Miklos Vajna <vmiklos@frugalware.org> (PHP directors)
Mark Gossage (mark@gossage.cjb.net) (Lua)
Raman Gopalan (ramangopalan@gmail.com) (eLua)
Gonzalo Garramuno (ggarra@advancedsl.com.ar) (Ruby, Ruby's UTL)
John Lenz (Guile, MzScheme updates, Chicken module, runtime system)
Baozeng Ding <sploving1@163.com> (Scilab)
Ian Lance Taylor (Go)
Vadim Zeitlin (PCRE, Python)
Stefan Zager (szager@gmail.com) (Python)
Vincent Couvert (Scilab)
Sylvestre Ledru (Scilab)
Wolfgang Frisch (Scilab)

Past contributors include:

Past students:
Songyan Feng (Chicago).
Xinghua Shi (Chicago).
Jing Cao (Chicago).
Aquinas Hobor (Chicago).

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Early bug reports and patches:

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1.506 sysvinit 2.88dsf -r14

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Send patches to sysvinit-devel@nongnu.org

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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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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  size: 8.5in 11.0in;
  margin: 0.25in 0.5in 0.25in 0.5in;
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}

p {
  margin-left: auto;
  margin-top: 0.5em;
  margin-bottom: 0.5em;
}
p.list {
  margin-left: 0.5in;
  margin-top: 0.05em;
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AUTHOR: Michael J. McLennan
Bell Labs Innovations for Lucent Technologies
mmclennan@lucent.com
http://www.tcltk.com/tcl

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<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
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  a.summary-letter {text-decoration: none}
  blockquote.smallquotation {font-size: smaller}
  div.display {margin-left: 3.2em}
  div.example {margin-left: 3.2em}
  div.lisp {margin-left: 3.2em}
  div.smalldisplay {margin-left: 3.2em}
  div.smallexample {margin-left: 3.2em}
  div.smalllisp {margin-left: 3.2em}
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  pre.format {font-family: serif}
  pre.menu-comment {font-family: serif}
  pre.menu-preformatted {font-family: serif}
  pre.smalldisplay {font-family: serif; font-size: smaller}
  pre.smallexample {font-size: smaller}
  pre.smallformat {font-family: serif; font-size: smaller}
  pre.smalllisp {font-size: smaller}
  span.nocodebreak {white-space:pre}
  span.nolinebreak {white-space:pre}
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Use the `<code>@page</code>` 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 `<code>@page</code>`:

```latex
@vskip 0pt plus 1filll
```

This is a TeX command that is not supported by the Info formatting commands. The `<code>@vskip</code>` 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 `<code>@insertcopying</code>` next (see section [Document Permissions](Document-Permissions.html#Document-Permissions)):

```latex
@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:

```latex
@titlepage
...
@page
@vskip 0pt plus 1filll
@insertcopying
Published by &hellip;

Cover art by &hellip;
@end titlepage
```

Published by &hellip;

Cover art by &hellip;

Published by &hellip;
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The title and copyright pages appear in the printed manual, but not in the Info file. Because of this, it is possible to use several slightly obscure TeX typesetting commands that cannot be used in an Info file. In addition, this part of the beginning of a Texinfo file contains the text of the copying permissions that appears in the printed manual.

You may wish to include titlepage-like information for plain text output. Simply place any such leading material between the `@ifplaintext` and `@end ifplaintext` and then run `makeinfo` with the `--no-headers` option. This will include the titlepage information in the output.
<table>
<thead>
<tr>
<th>3.4.1</th>
<th>&lt;code&gt;@titlepage&lt;/code&gt;</th>
<th>Create a title for the printed document.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.4.2</td>
<td>&lt;code&gt;@titlefont&lt;/code&gt;, &lt;code&gt;@center&lt;/code&gt;, and &lt;code&gt;@sp&lt;/code&gt;</td>
<td>The &lt;code&gt;@titlefont&lt;/code&gt;, &lt;code&gt;@center&lt;/code&gt;, and &lt;code&gt;@sp&lt;/code&gt; commands.</td>
</tr>
<tr>
<td>3.4.3</td>
<td>&lt;code&gt;@title&lt;/code&gt;, &lt;code&gt;@subtitle&lt;/code&gt;, and &lt;code&gt;@author&lt;/code&gt;</td>
<td>The &lt;code&gt;@title&lt;/code&gt;, &lt;code&gt;@subtitle&lt;/code&gt;, and &lt;code&gt;@author&lt;/code&gt; commands.</td>
</tr>
<tr>
<td>3.4.4</td>
<td>Copyright Page</td>
<td>How to write the copyright notice and include copying permissions.</td>
</tr>
<tr>
<td>3.4.5</td>
<td>Heading Generation</td>
<td>Turn on page headings after the title and copyright pages.</td>
</tr>
<tr>
<td>3.4.6</td>
<td>The &lt;code&gt;@headings&lt;/code&gt; Command</td>
<td>An option for turning headings on and off and double or single sided printing.</td>
</tr>
</tbody>
</table>
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   Karl Berry <karl@freefriends.org>
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Send bugs and suggestions to <texi2html-bug@nongnu.org>
-->
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  blockquote.smallquotation {font-size: smaller}
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  div.smallexample {margin-left: 3.2em}
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  pre.display {font-family: serif}
  pre.format {font-family: serif}
  pre.menu-comment {font-family: serif}
  pre.menu-preformatted {font-family: serif}
  pre.smalldisplay {font-family: serif; font-size: smaller}
  pre.smallexample {font-size: smaller}
  pre.smallformat {font-size: smaller}
</style>
</head>
13.5 Inserting TeX and the Copyright Symbol

The logo &lsquo;TeX&rsquo; is typeset in a special fashion and it needs an @-command. The copyright symbol, &lsquo;©&rsquo;, is also special. Each of these commands is followed by a pair of braces, &lsquo;{ }&rsquo;, without any whitespace between the name of the command and the braces.

How to insert the TeX logo.
How to use `<code>@copyright</code>`{}.

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  * title subtitle author:: The @title, @subtitle, and @author commands.
  * Copyright:: How to write the copyright notice and include copying permissions.
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* tex:: How to insert the TeX logo.
  * copyright symbol:: How to use @copyright{ }.

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References.

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Where all your sources are stored
Starting a project with CVS
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Diverging/rejoining branches of development
CVS descends directories
Adding/removing files and directories
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Olaf Bachmann,
Anne Frubis-Krüger,
Thomas Keilen,
Kai Krüger,
Christoph Lossen,
Viktor Levandovskyy,
Wilfred Pohl,
Mathias Schulze,
Eric Westenberger,
and
Tim Wichmann.

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Hubert Grassmann,
Wolfgang Neumann,
Jens Schmidt,
R"udiger Stobbe.

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Thomas Bayer,
Isabelle Bermejo,
Stephan Endrass,
Jose Ignacio Farran Martin,
Wolfram Decker,
Philippe Gimenez,
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Department of Mathematics and Centre for Computer Algebra
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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.

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 
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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 
reproducing the executable from it. However, as a special exception, 
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It may happen that this requirement contradicts the license 
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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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such a program is covered only if its contents constitute a work based
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   a) The modified work must itself be a software 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
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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
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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
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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.

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

6. As an exception to the Sections above, you may also 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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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.

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-- Wolfgang Denk

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```
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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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Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.
All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

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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 Licence. Therefore, support for the reduce method has been removed.

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*
* A collection of File Manager and related routines
*
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*
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*
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* ____________________________________________________________

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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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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/

/*
 mcp_can.cpp
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2014-1-16

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// The trimming algorithms used (bmm050_bosch_compensate_*)() were
// taken from the Bosch BMM050 driver code

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* 
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* 
* Date : 2016/03/17
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* Revision: 2.0.5 *
* Usage: Sensor Driver for BMM050 and BMM150 sensor
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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
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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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
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1.536 v4l-utils 1.12.3 -r0
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libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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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.

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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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 VIDIOCGBMUBUF 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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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

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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
c 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 ?

Permission granted.

Looking forward to seeing this in libv4l1 so we can kill this legacy code
in the kernel.

Regards,

Hans Verkuil
Thanks & Regards,

Hans

The long story:

I'm a Linux enthusiast / developer. Amongst other things I've ported over many webcam drivers from v4l1 to v4l2 and I'm the author and maintainer of libv4l.

Let me also quickly introduce libv4l about 3 years ago I had too much free time and was looking for a hobby project and I decided that improving webcam support under Linux would be a nice project. At that time there were many webcam driver but most of them were out of tree, including the gspca driver which is a usb webcam driver framework supporting a lot of different chipsets.

One problem with getting these merged is that a lot of webcam chipsets produce proprietary (compressed) video formats, which apps don't understand. The out of tree drivers all "fixed" this by doing decompression and video format conversion inside the kernel.

This was not acceptable thus it was time to write a library to sit between v4l2 apps and devices which could do format conversion if necessary. This resulted in libv4l2 and libv4lconvert being written, with libv4l2 being the glue sitting in between and libv4lconvert doing the actual conversion.

But this did not help v4l1 apps, so I also wrote libv4l1 for those.

Both libv4l1 and libv4l2 work by emulating the raw device API, all one needs to do is write v4lx_open instead of plain open when opening the device and 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 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
> re-licensing permission question.
> (*) As in practice v4l1 apps need libv4l1 anyways both for format
> conversion and because some v4l2 drivers don't implement VIDIOCGBUF
> including rather important ones like the UVC driver, thus we've
> come to the conclusion that we might just as well drop the
> compatibility from the kernel.
>

--
Hans Verkuil - video4linux developer - sponsored by TANDBERG, part of Cisco
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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.538 vcu-firmware

1.0.0+gitAUTOINC+a847c94546-r0

1.538.1 Available under license:

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*
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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*

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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.
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=== begin of license ===

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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:
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Swift code: INGB NL 2A
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under the name "stichting ICCF Holland", Lisse
  If that doesn't work:
    Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
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Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

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vim:tw=78:ts=8:ft=help:norl:
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Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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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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Contributors (in approximate order of appearance)

[See also the ChangeLog file where individuals are attributed in log entries. Likewise in the FAQ file.]

Ben Ellistonbie at cygnus dot com
Initiated the project;
setup the project infrastructure (CVS, web page, etc.);
early prototype routines.
Ross Johnsonnpj at callisto dot canberra dot edu dot au
early prototype routines;
ongoing project coordination/maintenance;
implementation of spin locks and barriers;
various enhancements;
bug fixes;
documentation;
testsuite.
Robert Colquhoun
jc at trump dot dot au
Early bug fixes.

John E. Bossom
John dot Bossom at cognos dot com
Contributed substantial original working implementation;
bug fixes;
ongoing guidance and standards interpretation.

Anders Norlander
norlander at hem2 dot passagen dot se
Early enhancements and runtime checking for supported
Win32 routines.

Tor Lillqvist
tml at iki dot fi
General enhancements;
early bug fixes to condition variables.

Scott Lightner
scott at curriculum dot com
Bug fix.

Kevin Ruland
Kevin dot Ruland at anheuser-busch dot com
Various bug fixes.

Mike Russomiker
mike at eai dot com
Bug fix.

Mark E. Armstrong
avail at pacbell dot net
Bug fixes.

Lorin Hochstein
lmh at xiphos dot ca
general bug fixes; bug fixes to condition variables.

Peter Slacik
Peter dot Slacik at tatramed dot sk
Bug fixes.

Mumit Khan
khan at xraylith dot wisc dot edu
Fixes to work with Mingw32.

Milan Gardian
m at tatramed dot sk
Bug fixes and reports/analyses of obscure problems.

Aurelio Medina
aureliom at crt dot com
First implementation of read-write locks.

Graham Dumpleton
Graham dot Dumpleton at ra dot pad dot otc dot telstra dot com dot au
Bug fix in condition variables.

Tristan Savatier
tristan at mpegtv dot com
WinCE port.

Erik Hensemaer
hensemaer dot xs4all dot nl
Bug fixes.

Rich Peters
peters at micro-magic dot com
Bug fixes to dll loading.

Jason Nyjne
nt at nbnet dot nb dot ca
Implementation of async cancelation.

Fred Forester
forester at etico dot com

Kevin D. Clark
kevin dot clark at cabletron dot com

David Baggett
baggett at itsosw dot com
Bug fixes.

Paul Redondo
redondo at matchvision dot com

Scott McCaskill
scott at 3dfx dot com
Bug fixes.
Jef Gearhart<gearhart at tpssys dot com
Bug fix.
Arthur Kantor<arthur at bexusa dot com
Mutex enhancements.
Steven Reddie<smr at essemer dot com dot au
Bug fix.
Alexander Terekhov<TEREKHOV at de dot ibm dot com
Re-implemented and improved read-write locks;
(with Louis Thomas) re-implemented and improved
condition variables;
enhancements to semaphores;
enhancements to mutexes;
new mutex implementation in 'futex' style;
suggested a robust implementation of pthread_once
similar to that implemented by V.Kliathcko;
system clock change handling re CV timeouts;
bug fixes.
Thomas Pfaff<tpfaff at gmx dot net
Changes to make C version usable with C++ applications;
re-implemented mutex routines to avoid Win32 mutexes
and TryEnterCriticalSection;
procedure to fix Mingw32 thread-safety issues.
Franco Bez<branco dot bez at gmx dot de
procedure to fix Mingw32 thread-safety issues.
Louis Thomas<lthomas at arbitrade dot com
(with Alexander Terekhov) re-implemented and improved
condition variables.
David Korn<dgk at research dot att dot com
Ported to UWIN.
Phil Frisbie, Jr<phil at hawksoft dot com
Bug fix.
Ralf Brese<Ralf dot Brese at pdb4 dot siemens dot de
Bug fix.
prionx at juno dot com prionx at juno dot com
Bug fixes.
Max Woodbury<mtew at cds dot duke dot edu
POSIX versioning conditionals;
reduced namespace pollution;
idea to separate routines to reduce statically
linked image sizes.
Rob Fannerr<fanner at stonethree dot com
Bug fix.
Michael Johnson<michaelj at maine dot rr dot com
Bug fix.
Nicolas Barry<boozai at yahoo dot com
Bug fixes.
Piet van Bruggen<pietvb at newbridges dot nl
Bug fix.
Makoto Katoraven at oldskool dot jp
AMD64 port.
Panagiotis E. Hadjidoukas peh at hpclab dot ceid dot upatras dot gr
Contributed the QueueUserAPCEx package which
makes preemptive async cancelation possible.
Will Bryant will bryant at ecosm dot com
Borland compiler patch and makefile.
Anuj Goyal anuj dot goyal at gmail dot com
Port to Digital Mars compiler.
Gottlob Frege gottlobfrege at gmail dot com
re-implemented pthread_once (version 2)
(pthread_once cancellation added by rpj).
Vladimir Kliatchko vladimir at kliatchko dot com
reimplemented pthread_once with the same form
as described by A. Terekho (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.
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TransGaming Inc.
Nicolas Capens
Daniel Koch
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Peter Kasting
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Daniel Nicoara
Alastair Patrick
Alok Priyadarshi
Kenneth Russell
Brian Salomon
Gregg Tavares
Jeff Timanus
Ben Vanik
Adrienne Walker
thestig@chromium.org
Justin Schuh
Scott Graham
Corentin Wallez

Adobe Systems Inc.
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Andrew Knight

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Gregoire Payen de La Garanderie

Intel Corporation
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Josh Triplett
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Milian Wolff

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

--- 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 IOS XR 700 7.0.0

8974


PATH_SPECIFIC_WHITELISTED_LICENSES = {
    'dtds': [  
        'UNKNOWN',  
    ],
    'diameter/dictionary.dtd': [  
        'UNKNOWN',  
    ],
    'wimaxasncp/dictionary.dtd': [  
        'UNKNOWN',  
    ],
    'doc': [  
        'UNKNOWN',  
    ],
    'docbook/custom_layer_pdf.xsl': [  
        'UNKNOWN',  
    ],
    'docbook/custom_layer_chm.xsl': [  
        'UNKNOWN',  
    ],
    'docbook/ws.css': [  
        'UNKNOWN',  
    ],
    'fix': [  
        'UNKNOWN',  
    ],
    'wsutil/g711.c': [  
        'UNKNOWN',  
    ],
    'packaging/macosx': [  
        'UNKNOWN',  
    ]
}


'},
    'epan/except.c': [
        'UNKNOWN',
    ],
    'epan/except.h': [
        'UNKNOWN',
    ],
    'cmake/TestFileOffsetBits.c': [
        'UNKNOWN',
    ],
    'cmake/TestWindowsFSeek.c': [
        'UNKNOWN',
    ],
    # Generated header files by lex/yacc/whatever
    'epan/dtd_grammar.h': [
        'UNKNOWN',
    ],
    'epan/dfilter/grammar.h': [
        'UNKNOWN',
    ],
    'epan/dfilter/grammar.c': [
        'UNKNOWN',
    ],
    'epan/dissectors/packet-dtn.c': [
        'GPL (v2 or later) GPL (v2 or later)' # TODO: make licensecheck handle this better
    ],
    'epan/dissectors/packet-ieee80211-radiotap-iter.': [
        # Using ISC license only
        'ISC GPL (v2)' # Using ISC license only
    ],
    'epan/dissectors/packet-ppi.c': [
        'BSD (3 clause) GPL (v2)' # Using BSD (3 clause) license
    ],
    'plugins/mate/mate_grammar.h': [
        'UNKNOWN',
    ],
    'version.h': [
        'UNKNOWN',
    ],
    # Special IDL license that appears to be compatible as far as I (not a
    # lawyer) can tell. See
    # https://www.wireshark.org/lists/wireshark-dev/201310/msg00234.html
    'epan/dissectors/pidl/idl_types.h': [
        'UNKNOWN',
    ],
    # Written by Ronnie Sahlberg and correctly licensed, but cannot include
    # a license header despite the file extension as they need to be
    # parsed by the pidl tool
    'epan/dissectors/pidl/mapi/request.cnf.c': [

'UNKNOWN',
],
'epan/dissectors/pidl/mapi/response.cnf.c': [
  'UNKNOWN',
],
# The following tools are under incompatible licenses (mostly GPLv3 or
# GPLv3+), but this is OK since they are not actually linked into Wireshark
'tools/pidl': [
  'UNKNOWN',
],
'tools/lemon': [
  'UNKNOWN',
],
'tools/licensecheck.pl': [
  'GPL (v2)'
],
# Generated files for GTK pixbuf binary bundling
'uigtk/wireshark-gresources.h': [
  'UNKNOWN',
],
'uigtk/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 = "'{}' has non-whitelisted license '{}'".format(filename, license)
    success = False
    print(reason)
    exit_status = 1

if success:
    print("\nSUCCESS\n")
    return 0
else:
    print("\nFAILED\n")
    return exit_status
def main():
    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 run Wireshark from the compilation directory itself. You must run make install as root in order to copy the program to the proper directories.

## 3. Berkeley Packet Filter (BPF) requirement

In order to capture packets (with Wireshark/TShark, tcpdump, or any other packet capture program) on a BSD system, your kernel must have the Berkeley Packet Filter mechanism enabled. The default kernel configurations in recent versions of BSD systems have this enabled already. To verify the bpf device is present, look in the /dev directory:

```
lsof /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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1.551 x11perf 1.6.0 -r0

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1.552 x264 r2731+gitAUTOINC+2b741f81e5 -r0

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