Open Source Used In XE-SDK 17.3
17.3-3.2.2

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Theodore Ts'o
23-June-2007

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Version 2, June 1991

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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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# 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.

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) $(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: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-shlibs: 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)
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

- trivial database library - private includes
-
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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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From 7461a3de38b66edbe2f5593f9bda9f2704d32bc Mon Sep 17 00:00:00 2001
From: Hongxu Jia <hongxu.jia@windriver.com>
Date: Wed, 17 Aug 2016 04:06:34 -0400
Subject: [PATCH] grub module explicitly keeps symbole .module_license

While using oe-core toolchain to strip grub module 'all_video.mod',
it stripped symbol table:

-------------
root@localhost:~# objdump -t all_video.mod

all_video.mod: file format elf64-x86-64

SYMBOL TABLE:
no symbols
-------------

It caused grub to load module all_video failed.
-------------

grub> insmod all_video
error: no symbol table.
-------------
Tweak strip option to keep symbol .module_license could workaround the issue.

root@localhost:~# objdump -t all_video.mod

all_video.mod:  file format elf64-x86-64

SYMBOL TABLE:
0000000000000000 l  d .text  0000000000000000 .text
0000000000000000 l  d .data  0000000000000000 .data
0000000000000000 l  d .module_license  0000000000000000 .module_license
0000000000000000 l  d .bss  0000000000000000 .bss
0000000000000000 l  d .moddeps  0000000000000000 .moddeps
0000000000000000 l  d .modname  0000000000000000 .modname

Upstream-Status: Pending

Signed-off-by: Hongxu Jia <hongxu.jia@windriver.com>

---

grub-core/genmod.sh.in | 2 +- 
1 file changed, 1 insertion(+), 1 deletion(-)

Index: grub-2.02/grub-core/genmod.sh.in
===================================================================
--- grub-2.02.orig/grub-core/genmod.sh.in
+++ grub-2.02/grub-core/genmod.sh.in
@@ -56,7 +56,7 @@ if test x@TARGET_APPLE_LINKER@ != x1; then
     @TARGET_STRIP@ --strip-unneeded \
     -K grub_mod_init -K grub_mod_fini \
     -K _grub_mod_init -K _grub_mod_fini \
     +K _grub_mod_init -K _grub_mod_fini -K .module_license \
     -R .note.gnu.gold-version -R .note.GNU-stack \
     -R .note -R .comment -R .ARM.exidx $tmpfile || exit 1
 fi

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1.8 lzo 2.10 r0

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Markus F.X.J. Oberhumer
<markus@oberhumer.com>
http://www.oberhumer.com/opensource/lzo/
*/

#define LZO_NEED_DICT_H 1
#include "config1c.h"

#if !defined(COMPRESS_ID)
#define COMPRESS_ID     LZO_PP_ECONCAT2(DD_BITS,CLEVEL)
#endif

#include "lzo1b_c.ch"

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

//
#define LZO_COMPRESS
   LZO_PP_ECONCAT3(lzo1c_,COMPRESS_ID,compress)

#define LZO_COMPRESS_FUNC
   LZO_PP_ECONCAT3(_lzo1c_,COMPRESS_ID,compress_func)

const lzo_compress_t LZO_COMPRESS_FUNC = do_compress;

LZO_PUBLIC(int)
LZO_COMPRESS ( const lzo_bytep in, lzo_uint in_len,
        lzo_bytep out, lzo_uintp out_len,
        lzo_voidp wrkmem )
{
    return _lzo1c_do_compress(in,in_len,out,out_len,wrkmem,do_compress);
}

/* vim:set ts=4 sw=4 et: */
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1.9 libtool 2.4.6 r0

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1.10 opkg-utils 0.3.6 r0

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contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

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

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

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1.13 python-py 1.6.0 r0
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1.14 bash-completion 2.8 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.

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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1.18 libunwind 1.2.1 r0
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1.19 python-iso8601 0.1.12 r0
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1.20 libpcre 8.42 r0
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THE BASIC LIBRARY FUNCTIONS
-----------------------------

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

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End

1.21 glib 2.58.0 r0

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End

1.22 mdadm 4.0 r0

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Version 2, June 1991

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 *
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 */
#include "mdadm.h"
#include "md_p.h"
#include <ctype.h>

static int scan_assemble(struct supertype *ss,
    struct context *c,
    struct mddev_ident *ident);
static int misc_scan(char devmode, struct context *c);
static int stop_scan(int verbose);
static int misc_list(struct mddev_dev *devlist,
    struct mddev_ident *ident,
    char *dump_directory,
    struct supertype *ss, struct context *c);
const char Name[] = "mdadm";

int main(int argc, char *argv[])
{
    int mode = 0;
    int opt;
    int option_index;
    int rv;
    int i;

    unsigned long long array_size = 0;
    unsigned long long data_offset = INVALID_SECTORS;
    struct mddev_ident ident;
    char *configfile = NULL;
    int devmode = 0;
    int bitmap_fd = -1;
    struct mddev_dev *devlist = NULL;
    struct mddev_dev **devlistend = &devlist;
    struct mddev_dev *dv;
    int devs_found = 0;
    char *symlinks = NULL;
    int grow_continue = 0;
    /* autof indicates whether and how to create device node.
     * bottom 3 bits are style. Rest (when shifted) are number of parts
     * 0  - unset
     * 1  - don't create (no)
     * 2  - if is_standard, then create (yes)
     * 3  - create as 'md' - reject is_standard mdp (md)
     * 4  - create as 'mdp' - reject is_standard md (mdp)
     * 5  - default to md if not is_standard (md in config file)
     * 6  - default to mdp if not is_standard (part, or mdp in config file)
     */
    struct context c = {
        .require_homehost = 1,
struct shape s = {
    .journaldisks= 0,
    .level= UnSet,
    .layout= UnSet,
    .bitmap_chunk= UnSet,
};

char sys_hostname[256];
char *mailaddr = NULL;
char *program = NULL;
int increments = 20;
int daemonise = 0;
char *pidfile = NULL;
int oneshot = 0;
int spare_sharing = 1;
struct supertype *ss = NULL;
enum flag_mode writemostly = FlagDefault;
enum flag_mode failfast = FlagDefault;
char *shortopt = short_options;
int dosyslog = 0;
int rebuild_map = 0;
char *remove_path = NULL;
char *udev_filename = NULL;
char *dump_directory = NULL;

int print_help = 0;
FILE *outf;

int mdfd = -1;

srandom(time(0) ^ getpid());

ident.uuid_set=0;
ident.level = UnSet;
ident.raid_disks = UnSet;
ident.super_minor= UnSet;
ident.devices=0;
ident.spare_group = NULL;
ident.autof = 0;
ident.st = NULL;
ident.bitmap_fd = -1;
ident.bitmap_file = NULL;
ident.name[0] = 0;
ident.container = NULL;
ident.member = NULL;

while ((option_index = -1) ,
(opt=getopt_long(argc, argv, 
shortopt, long_options, 
&option_index)) != -1) {
    int newmode = mode;
    /* firstly, some mode-independent options */
    switch(opt) {
    case HelpOptions:
        print_help = 2;
        continue;
    case 'h':
        print_help = 1;
        continue;
    case 'V':
        fputs(Version, stderr);
        exit(0);
    case 'v': c.verbose++;
        continue;
    case 'q': c.verbose--;
        continue;
    case 'b':
        if (mode == ASSEMBLE || mode == BUILD ||
            mode == CREATE || mode == GROW ||
            mode == INCREMENTAL || mode == MANAGE)
            break; /* b means bitmap */
    case Brief:
        c.brief = 1;
        continue;
    case 'Y': c.export++;
        continue;
    case HomeHost:
        if (strcasecmp(optarg, "<ignore>") == 0)
            c.require_homehost = 0;
        else
            c.homehost = optarg;
        continue;
    case OffRootOpt:
        /* Silently ignore old option */
        continue;
    case Prefer:
        if (c.prefer)
free(c.prefer);
if (asprintf(&c.prefer, "/%s/", optarg) <= 0)
c.prefer = NULL;
continue;

case ':':
case '?':
fputs(Usage, stderr);
exit(2);
}
/* second, figure out the mode.
 * Some options force the mode. Others
 * set the mode if it isn't already
 */

switch(opt) {
case ManageOpt:
newmode = MANAGE;
shortopt = short_bitmap_options;
break;
case 'a':
case Add:
case AddSpare:
case AddJournal:
case 'r':
case Remove:
case Replace:
case With:
case 'f':
case Fail:
case ReAdd: /* re-add */
case ClusterConfirm:
if (!mode) {
newmode = MANAGE;
shortopt = short_bitmap_options;
}
break;

case 'A': newmode = ASSEMBLE;
shortopt = short_bitmap_auto_options;
break;
case 'B': newmode = BUILD;
shortopt = short_bitmap_auto_options;
break;
case 'C': newmode = CREATE;
shortopt = short_bitmap_auto_options;
break;
case 'F': newmode = MONITOR;
break;
case 'G': newmode = GROW;
shortopt = short_bitmap_options;
break;
case 'I': newmode = INCREMENTAL;
shortopt = short_bitmap_auto_options;
break;
case AutoDetect:
    newmode = AUTODETECT;
break;

case MiscOpt:
case 'D':
case 'E':
case 'X':
case 'Q':
case ExamineBB:
case Dump:
case Restore:
case Action:
    newmode = MISC;
break;

case 'R':
case 'S':
case 'o':
case 'w':
case 'W':
case WaitOpt:
case Waitclean:
case DetailPlatform:
case KillSubarray:
case UpdateSubarray:
case UdevRules:
case KillOpt:
    if (!mode)
        newmode = MISC;
break;

case NoSharing:
    newmode = MONITOR;
break;
}
if (mode && newmode == mode) {
    /* everybody happy ! */
} else if (mode && newmode != mode) {
    /* not allowed.. */
    pr_err("\n");
if (option_index >= 0)
fprintf(stderr, "--%s", long_options[option_index].name);
else
fprintf(stderr, "-%c", opt);
fprintf(stderr, " would set mdadm mode to \"%s\", but it is already set to \"%s\"\n",
map_num(modes, newmode),
map_num(modes, mode));
exit(2);
} else if (!mode && newmode) {
    mode = newmode;
    if (mode == MISC && devs_found) {
        pr_err("No action given for %s in --misc mode\n",
devlist->devname);
        cont_err("Action options must come before device names\n");
        exit(2);
    }
} else {
    /* special case of -c --help */
    if ((opt == 'c' || opt == ConfigFile) &&
        (strncmp(optarg, "--h", 3) == 0 ||
        strncmp(optarg, "-h", 2) == 0)) {
        fputs(Help_config, stdout);
        exit(0);
    }
    /* If first option is a device, don't force the mode yet */
    if (opt == 1) {
        if (devs_found == 0) {
            dv = xmalloc(sizeof(*dv));
            dv->devname = optarg;
            dv->disposition = devmode;
            dv->writemostly = writemostly;
            dv->failfast = failfast;
            dv->used = 0;
            dv->next = NULL;
            *devlistend = dv;
            devlistend = &dv->next;

            devs_found++;
            continue;
        }
        /* No mode yet, and this is the second device ... */
        pr_err("An option must be given to set the mode before a second device\n"
" (%s) is listed\n", optarg);
        exit(2);
    }
if (option_index >= 0)
pr_err("--%s", long_options[option_index].name);
else
    pr_err("-%c", opt);
    fprintf(stderr, " does not set the mode, and so cannot be the first option.\n");
    exit(2);
}

/* if we just set the mode, then done */
switch(opt) {
  case ManageOpt:
  case MiscOpt:
  case 'A':
  case 'B':
  case 'C':
  case 'F':
  case 'G':
  case 'I':
  case AutoDetect:
    continue;
}
if (opt == 1) {
/* an undecorated option - must be a device name. */

    if (devs_found > 0 && devmode == DetailPlatform) {
        pr_err("controller may only be specified once, %s ignored\n", optarg);
        continue;
    }

    if (devs_found > 0 && mode == MANAGE && !devmode) {
        pr_err("Must give one of -a/-r/-f for subsequent devices at %s\n", optarg);
        exit(2);
    }
    if (devs_found > 0 && mode == GROW && !devmode) {
        pr_err("Must give -a/--add for devices to add: %s\n", optarg);
        exit(2);
    }
    dv = xmalloc(sizeof(*dv));
    dv->devname = optarg;
    dv->disposition = devmode;
    dv->writemostly = writemostly;
    dv->failfast = failfast;
    dv->used = 0;
    dv->next = NULL;
    *devlistend = dv;
    devlistend = &dv->next;
    devs_found++;
/* We've got a mode, and opt is now something else which
 * could depend on the mode */
#define O(a,b) ((a<<16)|b)
switch (O(mode,opt)) {
  case O(GROW,'c'):
  case O(GROW,ChunkSize):
  case O(CREATE,'c'):
  case O(CREATE,ChunkSize):
  case O(BUILD,'c'): /* chunk or rounding */
  case O(BUILD,ChunkSize): /* chunk or rounding */
    if (s.chunk) {
      pr_err("chunk/rounding may only be specified once. Second value is \%s\n", optarg);
      exit(2);
    }
    s.chunk = parse_size(optarg);
    if (s.chunk == INVALID_SECTORS ||
        s.chunk < 8 || (s.chunk&1)) {
      pr_err("invalid chunk/rounding value: \%s\n", optarg);
      exit(2);
    }
    /* Convert sectors to K */
    s.chunk /= 2;
    continue;

  case O(INCREMENTAL, 'e'):
  case O(CREATE,'e'):
  case O(ASSEMBLE,'e'):
  case O(MISC,'e'): /* set metadata (superblock) information */
    if (ss) {
      pr_err("metadata information already given\n");
      exit(2);
    }
    for(i=0; !ss && superlist[i]; i++)
      ss = superlist[i]->match_metadata_desc(optarg);
    if (!ss) {
      pr_err("unrecognised metadata identifier: \%s\n", optarg);
      exit(2);
    }
    continue;

  case O(MANAGE,'W'):
  case O(MANAGE,WriteMostly):
  case O(BUILD,'W'):
case O(BUILD, WriteMostly):
case O(CREATE, 'W '):
case O(CREATE, WriteMostly):
 /* set write-mostly for following devices */
 writemostly = FlagSet;
 continue;

case O(MANAGE, 'w '):
 /* clear write-mostly for following devices */
 writemostly = FlagClear;
 continue;

case O(MANAGE, FailFast):
case O(CREATE, FailFast):
 failfast = FlagSet;
 continue;
case O(MANAGE, NoFailFast):
 failfast = FlagClear;
 continue;

case O(GROW, 'z '):
case O(CREATE, 'z '):
case O(BUILD, 'z '):
 /* size */
 if (s.size > 0) {
 pr_err("size may only be specified once. Second value is %s, \n", optarg);
 exit(2);
 }
 if (strcmp(optarg, "max") == 0)
 s.size = MAX_SIZE;
 else {
 s.size = parse_size(optarg);
 if (s.size == INVALID_SECTORS || s.size < 8) {
 pr_err("invalid size: %s, \n", optarg);
 exit(2);
 }
 /* convert sectors to K */
 s.size /= 2;
 }
 continue;

case O(GROW, 'Z '):
 /* array size */
 if (array_size > 0) {
 pr_err("array-size may only be specified once. Second value is %s, \n", optarg);
 exit(2);
 }
 if (strcmp(optarg, "max") == 0)
 array_size = MAX_SIZE;
 else {
array_size = parse_size(optarg);
if (array_size == 0 ||
    array_size == INVALID_SECTORS) {
    pr_err("invalid array size: %s\n", optarg);
    exit(2);
}
continue;

case O(CREATE,DataOffset):
case O(GROW,DataOffset):
if (data_offset != INVALID_SECTORS) {
    pr_err("data-offset may only be specified once. Second value is %s\n", optarg);
    exit(2);
}
if (mode == CREATE && strcmp(optarg, "variable") == 0)
    data_offset = VARIABLE_OFFSET;
else
    data_offset = parse_size(optarg);
if (data_offset == INVALID_SECTORS) {
    pr_err("invalid data-offset: %s\n", optarg);
    exit(2);
}
continue;

case O(GROW,'l '):
case O(CREATE,'l '):
case O(BUILD,'l '): /* set raid level*/
if (s.level != UnSet) {
    pr_err("raid level may only be set once. Second value is %s\n", optarg);
    exit(2);
}
s.level = map_name(pers, optarg);
if (s.level == UnSet) {
    pr_err("invalid raid level: %s\n", optarg);
    exit(2);
}
if (s.level != 0 && s.level != LEVEL_LINEAR &&
    s.level != 1 && s.level != LEVEL_MULTIPATH &&
    s.level != LEVEL_FAULTY && s.level != 10 &&
    mode == BUILD) {
    pr_err("Raid level %s not permitted with --build\n", optarg);
    exit(2);
}
if (s.sparedisks > 0 && s.level < 1 && s.level >= -1) {
  pr_err("raid level %s is incompatible with spare-devices setting.
" , optarg);
  exit(2);
}
ident.level = s.level;
continue;

case O(GROW, 'p'): /* new layout */
    case O(GROW, Layout):
        if (s.layout_str)
            pr_err("layout may only be sent once. Second value was %s\n", optarg);
        exit(2);
    }
s.layout_str = optarg;
/* 'Grow' will parse the value */
continue;

    case O(CREATE,'p'): /* raid5 layout */
        case O(CREATE,Layout):
        case O(BUILD,'p'): /* faulty layout */
        case O(BUILD,Layout):
            if (s.layout != UnSet) {
                pr_err("layout may only be sent once. Second value was %s\n", optarg);
            exit(2);
            }
            switch(s.level) {
            default: pr_err("layout not meaningful for %s arrays.\n", map_num(pers, s.level));
                exit(2);
            case UnSet: pr_err("raid level must be given before layout.\n");
                exit(2);
            case 5: s.layout = map_name(r5layout, optarg);
                if (s.layout==UnSet) {
                    pr_err("layout %s not understood for raid5.\n", optarg);
            exit(2);
                } break;
            case 6: s.layout = map_name(r6layout, optarg);
                if (s.layout==UnSet) {
                    pr_err("layout %s not understood for raid6.\n", optarg);
            exit(2);
exit(2);
break;

case 10:
s.layout = parse_layout_10(optarg);
if (s.layout < 0) {
    pr_err("layout for raid10 must be 'nNN', 'oNN' or 'fNN' where NN is a number, not %s\n", optarg);
    exit(2);
}
break;
case LEVEL_FAULTY:
    /* Faulty    *
     * modeNNN    *
     */
    s.layout = parse_layout_faulty(optarg);
    if (s.layout == -1) {
        pr_err("layout %s not understood for faulty.\n", optarg);
        exit(2);
    }
    break;
    }
continue;

    case O(CREATE,AssumeClean):
    case O(BUILD,AssumeClean): /* assume clean */
    case O(GROW,AssumeClean):
    s.assume_clean = 1;
    continue;

    case O(GROW,'n'):
    case O(CREATE,'n'):
    case O(BUILD,'n'): /* number of raid disks */
    if (s.raiddisks) {
        pr_err("raid-devices set twice: %d and %s\n", s.raiddisks, optarg);
        exit(2);
    }
    s.raiddisks = parse_num(optarg);
    if (s.raiddisks <= 0) {
        pr_err("invalid number of raid devices: %s\n", optarg);
        exit(2);
    }
    ident.raid_disks = s.raiddisks;
    continue;
    case O(ASSEMBLE, Nodes):
case O(GROW, Nodes):
case O(CREATE, Nodes):
c.c.nodes = parse_num(optarg);
if (c.c.nodes <= 0) {
    pr_err("invalid number for the number of cluster nodes: %s
    optarg);
    exit(2);
}
continue;
case O(CREATE, ClusterName):
case O(ASSEMBLE, ClusterName):
c.c.homecluster = optarg;
if (strlen(c.c.homecluster) > 64) {
    pr_err("Cluster name too big.
    ");
    exit(ERRANGE);
}
continue;
case O(CREATE,'x'): /* number of spare (eXtra) disks */
if (s.sparedisks) {
    pr_err("spare-devices set twice: %d and %s
    
    .s.sparedisks, optarg);
    exit(2);
}
if (s.c.level != UnSet && s.c.level <= 0 && s.c.level >= -1) {
    pr_err("spare-devices setting is incompatible with raid level %d
    
    .s.c.level);
    exit(2);
}
s.s.sparedisks = parse_num(optarg);
if (s.s.sparedisks < 0) {
    pr_err("invalid number of spare-devices: %s
    optarg);
    exit(2);
}
continue;
}
case O(CREATE,'a'):
case O(CREATE,Auto):
case O(BUILD,'a'):
case O(BUILD,Auto):
case O(INCREMENTAL,'a'):
case O(INCREMENTAL,Auto):
case O(ASSEMBLE,'a'):
case O(ASSEMBLE,Auto): /* auto-creation of device node */
c.c.autof = parse_auto(optarg, "--auto flag", 0);
continue;
}
case O(CREATE,Symlinks):
case O(BUILD,Symlinks):
    /* auto creation of symlinks in /dev to /dev/md */
    symlinks = optarg;
    continue;

    case O(BUILD,'f'): /* force honouring '-n 1' */
    case O(BUILD,Force): /* force honouring '-n 1' */
    case O(GROW,'f'): /* ditto */
    case O(GROW,Force): /* ditto */
    case O(CREATE,'f'): /* force honouring of device list */
    case O(CREATE,Force): /* force honouring of device list */
    case O(ASSEMBLE,'f'): /* force assembly */
    case O(ASSEMBLE,Force): /* force assembly */
    case O(MISC,'f'): /* force zero */
    case O(MISC,Force): /* force zero */
    case O(MANAGE,Force): /* add device which is too large */
    c.force=1;
    continue;

    /* now for the Assemble options */
    case O(ASSEMBLE, FreezeReshape): /* Freeze reshape during initrd phase */
    case O(INCREMENTAL, FreezeReshape):
        c.freeze_reshape = 1;
        continue;
    case O(CREATE,'u'): /* uuid of array */
    case O(ASSEMBLE,'u'): /* uuid of array */
    if (ident.uuid_set) {
        pr_err("uuid cannot be set twice. Second value \%s,\n", optarg);
        exit(2);
    }
    if (parse_uuid(optarg, ident.uuid))
        ident.uuid_set = 1;
    else {
        pr_err("Bad uuid: \%s,\n", optarg);
        exit(2);
    }
    continue;

    case O(CREATE,'N'):
    case O(ASSEMBLE,'N'):
    case O(MISC,'N'):
    if (ident.name[0]) {
        pr_err("name cannot be set twice. Second value \%s,\n", optarg);
        exit(2);
    }
    if (mode == MISC && !c.subarray) {
        pr_err("-N/--name only valid with --update-subarray in misc mode\n");
        exit(2);
if (strlen(optarg) > 32) {
    pr_err("name '%s' is too long, 32 chars max.", optarg);
    exit(2);
}
strcpy(ident.name, optarg);
continue;

    case O(ASSEMBLE,'m'): /* super-minor for array */
    case O(ASSEMBLE,SuperMinor):
        if (ident.super_minor != UnSet) {
            pr_err("super-minor cannot be set twice. Second value: %s.", optarg);
            exit(2);
        }
        if (strcmp(optarg, "dev") == 0)
            ident.super_minor = -2;
        else {
            ident.super_minor = parse_num(optarg);
            if (ident.super_minor < 0) {
                pr_err("Bad super-minor number: %s.", optarg);
                exit(2);
            }
        }
        continue;
    
    case O(ASSEMBLE,'o'):
    case O(MANAGE,'o'):
    case O(CREATE,'o'):
        c.readonly = 1;
        continue;

    case O(ASSEMBLE,'U'): /* update the superblock */
    case O(MISC,'U'):
        if (c.update) {
            pr_err("Can only update one aspect of superblock, both %s and %s given.",
                  c.update, optarg);
            exit(2);
        }
        if (mode == MISC && !c.subarray) {
            pr_err("Only subarrays can be updated in misc mode.");
            exit(2);
        }
        c.update = optarg;
        if (strcmp(c.update, "sparc2.2") == 0)
            continue;
        if (strcmp(c.update, "super-minor") == 0)
            continue;
if (strcmp(c.update, "summaries") == 0)
    continue;
if (strcmp(c.update, "resync") == 0)
    continue;
if (strcmp(c.update, "uuid") == 0)
    continue;
if (strcmp(c.update, "name") == 0)
    continue;
if (strcmp(c.update, "homehost") == 0)
    continue;
if (strcmp(c.update, "home-cluster") == 0)
    continue;
if (strcmp(c.update, "nodes") == 0)
    continue;
if (strcmp(c.update, "devicesize") == 0)
    continue;
if (strcmp(c.update, "no-bitmap") == 0)
    continue;
if (strcmp(c.update, "bbl") == 0)
    continue;
if (strcmp(c.update, "no-bbl") == 0)
    continue;
if (strcmp(c.update, "force-no-bbl") == 0)
    continue;
if (strcmp(c.update, "metadata") == 0)
    continue;
if (strcmp(c.update, "revert-reshape") == 0)
    continue;
if (strcmp(c.update, "byteorder") == 0) {
    if (ss) {
        pr_err("must not set metadata type with --update=byteorder.
    ");
    exit(2);
    }
    for(i=0; !ss && superlist[i]; i++)
        ss = superlist[i]->match_metadata_desc("0.swap");
    if (!ss) {
        pr_err("INTERNAL ERROR cannot find 0.swap\n");
        exit(2);
    }
    continue;
}
if (strcmp(c.update,"?")) == 0 ||
    strcmp(c.update, "help") == 0) {
    outf = stdout;
    fprintf(outf, "%s: ", Name);
} else {

outf = stderr;
fprintf(outf, "%s: '--update=%s' is invalid. ", Name, c.update);
}
fprintf(outf, "Valid --update options are:
     'sparc2.2', 'super-minor', 'uid', 'name', 'nodes', 'resync',
     'summarizes', 'homehost', 'home-cluster', 'byteorder', 'devicesize',
     'no-bitmap', 'metadata', 'revert-reshape
     'bbl', 'no-bbl', 'force-no-bbl
");
exit(outf == stdout ? 0 : 2);

case O(MANAGE,'U'):
    /* update=devicesize is allowed with --re-add */
    if (devmode != 'A') {
        pr_err("--update in Manage mode only allowed with --re-add.");
        exit(1);
    }
    if (c.update) {
        pr_err("Can only update one aspect of superblock, both %s and %s given.
", c.update, optarg);
        exit(2);
    }
    c.update = optarg;
    if (strcmp(c.update, "devicesize") != 0 &&
        strcmp(c.update, "bbl") != 0 &&
        strcmp(c.update, "force-no-bbl") != 0 &&
        strcmp(c.update, "no-bbl") != 0) {
        pr_err("only 'devicesize', 'bbl', 'no-bbl', and 'force-no-bbl' can be updated with --re-add\n");
        exit(2);
    }
    continue;

    case O(INCREMENTAL,NoDegraded):
        pr_err("--no-degraded is deprecated in Incremental mode\n");
    case O(ASSEMBLE,NoDegraded): /* --no-degraded */
        c.runstop = -1; /* --stop isn't allowed for --assemble,
         * so we overload slightly */
        continue;

    case O(ASSEMBLE, ConfigFile):
    case O(INCREMENTAL, 'c'):
    case O(INCREMENTAL, ConfigFile):
    case O(MISC, 'c'):
    case O(MISC, ConfigFile):
    case O(MONITOR, 'c'):
case O(MONITOR, ConfigFile):
  case O(CREATE, ConfigFile):
    if (configfile) {
      pr_err("configfile cannot be set twice. Second value is %s\n", optarg);
      exit(2);
    }
    configfile = optarg;
    set_confie(configfile);
  /* FIXME possibly check that config file exists. Even parse it */
    continue;
  case O(ASSEMBLE, 's'): /* scan */
    case O(MISC, 's'):
    case O(MONITOR, 's'):
    case O(INCREMENTAL, 's'):
      c.scan = 1;
      continue;

  case O(MONITOR, 'm'): /* mail address */
  case O(MONITOR, EMail):
    if (mailaddr)
      pr_err("only specify one mailaddress. %s ignored\n", optarg);
    else
      mailaddr = optarg;
    continue;

  case O(MONITOR, 'p'): /* alert program */
  case O(MONITOR, ProgramOpt): /* alert program */
    if (program)
      pr_err("only specify one alter program. %s ignored\n", optarg);
    else
      program = optarg;
    continue;

  case O(MONITOR, 'r'): /* rebuild increments */
  case O(MONITOR, Increment):
    increments = atoi(optarg);
    if (increments > 99 || increments < 1) {
      pr_err("please specify positive integer between 1 and 99 as rebuild increments\n");
      exit(2);
    }
    continue;

  case O(MONITOR, 'd'): /* delay in seconds */
  case O(GROW, 'd'):
    case O(BUILD, 'd'): /* delay for bitmap updates */
    case O(CREATE, 'd'):
if (c.delay)
pr_err("only specify delay once. %s ignored.\n", optarg);
else {
c.delay = parse_num(optarg);
if (c.delay < 1) {
pr_err("invalid delay: %s\n", optarg);
exit(2);
}
}
continue;
case O(MONITOR,'f'): /* daemonise */
case O(MONITOR,Fork):
daemonise = 1;
continue;
case O(MONITOR,'i'): /* pid */
if (pidfile)
pr_err("only specify one pid file. %s ignored.\n", optarg);
else
pidfile = optarg;
continue;
case O(MONITOR,'l'): /* oneshot */
oneshot = 1;
spare_sharing = 0;
continue;
case O(MONITOR,'t'): /* test */
c.test = 1;
continue;
case O(MONITOR,'y'): /* log messages to syslog */
openlog("mdadm", LOG_PID, SYSLOG_FACILITY);
dosyslog = 1;
continue;
case O(MONITOR, NoSharing):
spare_sharing = 0;
continue;

/* now the general management options. Some are applicable
 * to other modes. None have arguments.
 */
case O(GROW,'a'):
case O(GROW,Add):
case O(MANAGE,'a'):
case O(MANAGE,Add): /* add a drive */
devmode = 'a';
continue;
case O(MANAGE,AddSpare): /* add drive - never re-add */
devmode = 'S';
continue;
case O(MANAGE, AddJournal): /* add journal */
if (s.journaldisks && (s.level < 4 || s.level > 6)) {
    pr_err("--add-journal is only supported for RAID level 4/5/6\n");
    exit(2);
}
devmode = 'j';
continue;
case O(MANAGE, ReAdd):
devmode = 'A';
continue;
case O(MANAGE, 'r'): /* remove a drive */
case O(MANAGE, Remove):
devmode = 'r';
continue;
case O(MANAGE, 'f'): /* set faulty */
case O(MANAGE, Fail):
case O(INCREMENTAL, 'f'):
case O(INCREMENTAL, Remove):
case O(INCREMENTAL, Fail): /* r for incremental is taken, use f */
    * even though we will both fail and
    * remove the device */
devmode = 'f';
continue;
case O(MANAGE, ClusterConfirm):
devmode = 'c';
continue;
case O(MANAGE, Replace):
    /* Mark these devices for replacement */
devmode = 'R';
continue;
case O(MANAGE, With):
    /* These are the replacements to use */
if (devmode != 'R') {
    pr_err("--with must follow --replace\n");
    exit(2);
}
devmode = 'W';
continue;
case O(INCREMENTAL, 'R'):
case O(MANAGE, 'R'):
case O(ASSEMBLE, 'R'):
case O(BUILD, 'R'):
case O(CREATE, 'R'): /* Run the array */
if (c.runstop < 0) {
    pr_err("Cannot both Stop and Run an array\n");
    exit(2);
c.runstop = 1;
continue;

if (c.runstop > 0) {
  pr_err("Cannot both Run and Stop an array\n");
  exit(2);
}
c.runstop = -1;
continue;

case O(MANAGE,'S'):
if (c.runstop > 0) {
  pr_err("Cannot both Run and Stop an array\n");
  exit(2);
}
c.runstop = -1;
continue;

case O(MANAGE,'t'):
c.test = 1;
continue;

case O(MISC,'Q'):
case O(MISC,'D'):
case O(MISC,'E'):
case O(MISC,KillOpt):
case O(MISC,'R'):
case O(MISC,'S'):
case O(MISC,'X'):
case O(MISC, ExamineBB):
case O(MISC,'o'):
case O(MISC,'w'):
case O(MISC,'W'):
case O(MISC, WaitOpt):
case O(MISC, Waitclean):
case O(MISC, DetailPlatform):
case O(MISC, KillSubarray):
case O(MISC, UpdateSubarray):
case O(MISC, Dump):
case O(MISC, Restore):
case O(MISC ,Action):
if (opt == KillSubarray || opt == UpdateSubarray) {
  if (c.subarray) {
    pr_err("subarray can only be specified once\n");
    exit(2);
  }
c.subarray = optarg;
}
if (opt == Action) {
  if (c.action) {
    pr_err("Only one --action can be specified\n");
    exit(2);
  }
  if (strcmp(optarg, "idle") == 0 ||
      strcmp(optarg, "frozen") == 0 ||
      strcmp(optarg, "check") == 0 ||
if (strcmp(optarg, "repair") == 0)
c.action = optarg;
else {
    pr_err("action must be one of idle, frozen, check, repair\n");
    exit(2);
}

if (devmode && devmode != opt &&
    (devmode == 'E' ||
    (opt == 'E' && devmode != 'Q'))) {
    pr_err("--examine/-E cannot be given with ");
    if (devmode == 'E') {
        if (option_index >= 0)
            fprintf(stderr, "-%s\n",
                long_options[option_index].name);
        else
            fprintf(stderr, "-%c\n", opt);
    } else if (isalpha(devmode))
        fprintf(stderr, "-%c\n", devmode);
    else
        fprintf(stderr, "previous option\n");
    exit(2);
}
devmode = opt;
if (opt == Dump || opt == Restore) {
    if (dump_directory != NULL)
        pr_err("dump/restore directory specified twice: %s and %s\n",
            dump_directory, optarg);
    exit(2);
}
dump_directory = optarg;
continue;
case O(MISC, UdevRules):
    if (devmode && devmode != opt) {
        pr_err("--udev-rules must be the only option.\n");
    } else {
        if (udev_filename)
            pr_err("only specify one udev rule filename. %s ignored.\n",
                optarg);
        else
            udev_filename = optarg;
    }
devmode = opt;
continue;
case O(MISC,"t"):
c.test = 1;
continue;
case O(MISC, Sparc22):
if (devmode != 'E') {
    pr_err("--sparc2.2 only allowed with --examine\n");
    exit(2);
}
c.SparcAdjust = 1;
continue;

case O(ASSEMBLE,'b'):
  /* here we simply set the bitmap file */
case O(ASSEMBLE, Bitmap):
if (!optarg) {
    pr_err("bitmap file needed with -b in --assemble mode\n");
    exit(2);
}
if (strcmp(optarg, "internal") == 0) {
    pr_err("there is no need to specify --bitmap when assembling arrays with internal bitmaps\n");
    continue;
}
bitmap_fd = open(optarg, O_RDWR);
if (!*optarg || bitmap_fd < 0) {
    pr_err("cannot open bitmap file %s: %s\n", optarg, strerror(errno));
    exit(2);
}
ident.bitmap_fd = bitmap_fd; /* for Assemble */
continue;

case O(ASSEMBLE, BackupFile):
case O(GROW, BackupFile):
  /* Specify a file into which grow might place a backup,
   * or from which assemble might recover a backup
   */
if (c.backup_file) {
    pr_err("backup file already specified, rejecting %s\n", optarg);
    exit(2);
}
c.backup_file = optarg;
continue;

case O(GROW, Continue):
  /* Continue interrupted grow
   */
grow_continue = 1;
continue;
case O(ASSEMBLE, InvalidBackup):
  /* Acknowledge that the backupfile is invalid, but ask
   * to continue anyway
   */
c.invalid_backup = 1;
continue;

case O(BUILD,'b'):
case O(BUILD, Bitmap):
case O(CREATE,'b'):
case O(CREATE, Bitmap):
  /* here we create the bitmap */
case O(GROW,'b'):
case O(GROW, Bitmap):
if (strcmp(optarg, "internal") == 0 ||
    strcmp(optarg, "none") == 0 ||
    strchr(optarg, '/') ! = NULL) {
  s.bitmap_file = optarg;
  continue;
}
if (strcmp(optarg, "clustered") == 0) {
  s.bitmap_file = optarg;
  /* Set the default number of cluster nodes
   * to 4 if not already set by user
   */
  if (c.nodes < 1)
    c.nodes = 4;
  continue;
}
/* probable typo */
pr_err("bitmap file must contain a '/', or be 'internal', or be 'clustered', or 'none'\n"    not '%s'\n", optarg);
exit(2);

case O(GROW, BitmapChunk):
case O(BUILD, BitmapChunk):
case O(CREATE, BitmapChunk):
  /* bitmap chunksize */
s.bitmap_chunk = parse_size(optarg);
if (s.bitmap_chunk == 0 ||
    s.bitmap_chunk == INVALID_SECTORS ||
    s.bitmap_chunk & (s.bitmap_chunk - 1)) {
  pr_err("invalid bitmap chunksize: %s\n",
      optarg);
  exit(2);
}
s.bitmap_chunk = s.bitmap_chunk * 512;
continue;

case O(GROW, WriteBehind):
case O(BUILD, WriteBehind):
case O(CREATE, WriteBehind):
  /* write-behind mode */
s.write_behind = DEFAULT_MAX_WRITE_BEHIND;
if (optarg) {
s.write_behind = parse_num(optarg);
if (s.write_behind < 0 ||
    s.write_behind > 16383) {
    pr_err("Invalid value for maximum outstanding write-behind writes: \%s.\nMust be between 0 and 16383.\n", optarg);
    exit(2);
    }
continue;

case O(INCREMENTAL, 'r'):
case O(INCREMENTAL, RebuildMapOpt):
    rebuild_map = 1;
    continue;

case O(INCREMENTAL, IncrementalPath):
    remove_path = optarg;
    continue;

case O(CREATE, WriteJournal):
if (s.journaldisks) {
    pr_err("Please specify only one journal device for the array.\n");
    pr_err("Ignoring --write-journal \%s...\n", optarg);
    continue;
}
dv = xmalloc(sizeof(*dv));
dv->devname = optarg;
dv->disposition = 'j'; /* WriteJournal */
dv->used = 0;
dv->next = NULL;
*devlistend = dv;
devlistend = &dv->next;
devs_found++;

s.journaldisks = 1;
continue;
}/* We have now processed all the valid options. Anything else is
 * an error
 */
if (option_index > 0)
    pr_err("option --\%s not valid in \%s mode\n",
    long_options[option_index].name,
    map_num(modes, mode));
else
    pr_err("option -\%c not valid in \%s mode\n",
    opt, map_num(modes, mode));
exit(2);
}
if (print_help) {
    char *help_text;
    if (print_help == 2)
        help_text = OptionHelp;
    else
        help_text = mode_help[mode];
    if (help_text == NULL)
        help_text = Help;
    fputs(help_text, stdout);
    exit(0);
}

if (s.journaldisks && (s.level < 4 || s.level > 6)) {
    pr_err("--write-journal is only supported for RAID level 4/5/6.
");
    exit(2);
}

if (!mode && devs_found) {
    mode = MISC;
    devmode = 'Q';
    if (devlist->disposition == 0)
        devlist->disposition = devmode;
}

if (!mode) {
    fputs(Usage, stderr);
    exit(2);
}

if (symlinks) {
    struct createinfo *ci = conf_get_create_info();

    if (strcasestr(symlinks, "yes") == 0)
        ci->symlinks = 1;
    else if (strcasestr(symlinks, "no") == 0)
        ci->symlinks = 0;
    else {
        pr_err("option --symlinks must be 'no' or 'yes'");
        exit(2);
    }
}

/* Ok, got the option parsing out of the way
 * hopefully it's mostly right but there might be some stuff
 * missing
 * That is mostly checked in the per-mode stuff but...
 * 
 * For @,B,C and A without -s, the first device listed must be
* an md device. We check that here and open it.
*/

if (mode == MANAGE || mode == BUILD || mode == CREATE ||
    mode == GROW || (mode == ASSEMBLE && !c.scan)) {
    if (devs_found < 1) {
        pr_err("an md device must be given in this mode\n");
        exit(2);
    }
    if ((int)ident.super_minor == -2 && c.autof) {
        pr_err("--super-minor=dev is incompatible with --auto\n");
        exit(2);
    }
    if (mode == MANAGE || mode == GROW) {
        mdfd = open_mddev(devlist->devname, 1);
        if (mdfd < 0)
            exit(1);
    } else
    /* non-existent device is OK */
    mdfd = open_mddev(devlist->devname, 0);
    if (mdfd == -2) {
        pr_err("device %s exists but is not an md array.\n", devlist->devname);
        exit(1);
    }
    if ((int)ident.super_minor == -2) {
        struct stat stb;
        if (mdfd < 0) {
            pr_err("--super-minor=dev given, and listed device %s doesn't exist.\n", devlist->devname);
            exit(1);
        }
        fstat(mdfd, &stb);
        ident.super_minor = minor(stb.st_rdev);
    }
    if (mdfd >= 0 && mode != MANAGE && mode != GROW) {
        /* We don't really want this open yet, we just might
         * have wanted to check some things
         */
        close(mdfd);
        mdfd = -1;
    }
}

if (s.raiddisks) {
    if (s.raiddisks == 1 && !c.force && s.level != LEVEL_FAULTY) {
        pr_err("'1' is an unusual number of drives for an array, so it is probably\n" " a mistake. If you really mean it you will need to specify --force before\n" " setting the number of drives.\n");
}
exit(2);
}
}

if (c.homehost == NULL && c.require_homehost)
c.homehost = conf_get_homehost(&c.require_homehost);
if (c.homehost == NULL || strcmp(c.homehost, "<system>") == 0) {
if (gethostname(sys_hostname, sizeof(sys_hostname)) == 0) {
  sys_hostname[sizeof(sys_hostname)-1] = 0;
  c.homehost = sys_hostname;
}
}
if (c.homehost && (!c.homehost[0] || strcmp(c.homehost, "<none>") == 0)) {
  c.homehost = NULL;
  c.require_homehost = 0;
}

rv = 0;

set_hooks(); /* set hooks from libs */

if (c.homecluster == NULL && (c.nodes > 0)) {
  c.homecluster = conf_get_homecluster();
  if (c.homecluster == NULL)
    rv = get_cluster_name(&c.homecluster);
  if (rv) {
    pr_err("The md can't get cluster name\n");
    exit(1);
  }
}

if (c.backup_file && data_offset != INVALID_SECTORS) {
  pr_err("--backup-file and --data-offset are incompatible\n");
  exit(2);
}

if ((mode == MISC && devmode == 'E') ||
    (mode == MONITOR && spare_sharing == 0))
  /* Anyone may try this */;
else if (geteuid() != 0) {
  pr_err("must be super-user to perform this action\n");
  exit(1);
}

ident.autof = c.autof;

if (c.scan && c.verbose < 2)
/* --scan implied --brief unless -vv */
c.brief = 1;

switch(mode) {
case MANAGE:
    /* readonly, add/remove, readwrite, runstop */
    if (c.readonly > 0)
        rv = Manage_ro(devlist->devname, mdfd, c.readonly);
    if (!rv && devs_found>1)
        rv = Manage_subdevs(devlist->devname, mdfd,
                            devlist->next, c.verbose, c.test,
                            c.update, c.force);
    if (!rv && c.readonly < 0)
        rv = Manage_ro(devlist->devname, mdfd, c.readonly);
    if (!rv && c.runstop > 0)
        rv = Manage_run(devlist->devname, mdfd, &c);
    if (!rv && c.runstop < 0)
        rv = Manage_stop(devlist->devname, mdfd, c.verbose, 0);
    break;
case ASSEMBLE:
    if (devs_found == 1 && ident.uuid_set == 0 &&
        ident.super_minor == UnSet && ident.name[0] == 0 &&
        !c.scan ) {
        /* Only a device has been given, so get details from config file */
        struct mddev_ident *array_ident = conf_get_ident(devlist->devname);
        if (array_ident == NULL) {
            pr_err("%s not identified in config file.\n",
                   devlist->devname);
            rv |= 1;
            if (mdfd >= 0)
                close(mdfd);
        } else {
            if (array_ident->autof == 0)
                array_ident->autof = c.autof;
            rv |= Assemble(ss, devlist->devname, array_ident,
                            NULL, &c);
        }
    } else if (!c.scan)
        rv = Assemble(ss, devlist->devname, &ident,
                      devlist->next, &c);
    else if (devs_found > 0) {
        if (c.update && devs_found > 1) {
            pr_err("can only update a single array at a time\n");
            exit(1);
        }
        if (c.backup_file && devs_found > 1) {
            pr_err("can only assemble a single array when providing a backup file\n");
            exit(1);
        }
{ for (dv = devlist ; dv ; dv=dv->next) {
    struct mddev_ident *array_ident = conf_get_ident(dv->devname);
    if (array_ident == NULL) {
        pr_err("%s not identified in config file\n", dv->devname);
        rv |= 1;
        continue;
    }
    if (array_ident->autof == 0)
        array_ident->autof = c.autof;
    rv |= Assemble(ss, dv->devname, array_ident, NULL, &c);
}
    } else {
        if (c.update) {
            pr_err("--update not meaningful with a --scan assembly\n");
            exit(1);
        }
        if (c.backup_file) {
            pr_err("--backup_file not meaningful with a --scan assembly\n");
            exit(1);
        }
        rv = scan_assemble(ss, &c, &ident);
    }
break;
    case BUILD:
        if (c.delay == 0)
            c.delay = DEFAULT_BITMAP_DELAY;
        if (s.write_behind && !s.bitmap_file) {
            pr_err("write-behind mode requires a bitmap\n");
            rv = 1;
            break;
        }
        if (s.raiddisks == 0) {
            pr_err("no raid-devices specified\n");
            rv = 1;
            break;
        }
        if (s.bitmap_file) {
            if (strcmp(s.bitmap_file, "internal") == 0 ||
                strcmp(s.bitmap_file, "clustered") == 0) {
                pr_err("'internal' and 'clustered' bitmaps not supported with --build\n");
                rv |= 1;
                break;
            }
rv = Build(devlist->devname, devlist->next, &s, &c);
break;
case CREATE:
if (c.delay == 0)
c.delay = DEFAULT_BITMAP_DELAY;

if (c.nodes) {
if (!s.bitmap_file ||
    strcmp(s.bitmap_file, "clustered") != 0) {
    pr_err("--nodes argument only compatible with --bitmap=clustered\n");
rV = 1;
break;
}
}
if (s.level != 1) {
    pr_err("--bitmap=clustered is currently supported with RAID mirror only\n");
rV = 1;
break;
}
if (s.write_behind && !s.bitmap_file) {
    pr_err("write-behind mode requires a bitmap.\n");
rV = 1;
break;
}
if (s.raiddisks == 0) {
    pr_err("no raid-devices specified.\n");
rV = 1;
break;
}
rv = Create(ss, devlist->devname,
            ident.name, ident.uuid_set ? ident.uuid : NULL,
            devs_found-1, devlist->next,
            &s, &c, data_offset);
break;
case MISC:
if (devmode == 'E') {
if (devlist == NULL && !c.scan) {
    pr_err("No devices to examine\n");
    exit(2);
}
}
if (devlist == NULL)
devlist = conf_get_devs();
if (devlist == NULL) {
    pr_err("No devices listed in %\n", configfile?configfile:DefaultConfFile);
exit(1);
}
rv = Examine(devlist, &c, ss);
} else if (devmode == DetailPlatform) {
rv = Detail_Platform(ss ? ss->ss : NULL, ss ? c.scan : 1,
   c.verbose, c.export,
   devlist ? devlist->devname : NULL);
} else if (devlist == NULL) {
   if (devmode == 'S' && c.scan)
      rv = stop_scan(c.verbose);
   else if ((devmode == 'D' || devmode == Waitclean) &&
            c.scan)
      rv = misc_scan(devmode, &c);
   else if (devmode == UdevRules)
      rv = Write_rules(udev_filename);
   else {
      pr_err("No devices given.\n");
      exit(2);
   }
} else
rv = misc_list(devlist, &ident, dump_directory, ss, &c);
break;
case MONITOR:
   if (!devlist && !c.scan) {
      pr_err("Cannot monitor: need --scan or at least one device\n");
      rv = 1;
      break;
   }
   if (pidfile && !daemonise) {
      pr_err("Cannot write a pid file when not in daemon mode\n");
      rv = 1;
      break;
   }
   if (c.delay == 0) {
      if (get_linux_version() > 2006016)
   /* mdstat responds to poll */
         c.delay = 1000;
      else
         c.delay = 60;
   }
   rv = Monitor(devlist, mailaddr, program,
      &c, daemonise, oneshot,
      dosyslog, pidfile, increments,
      spare_sharing);
  break;

case GROW:
  if (array_size > 0) {

/* always impose array size first, independent of
* anything else
* Do not allow level or raid_disks changes at the
* same time as that can be irreversibly destructive.
*/

struct mdinfo sra;
int err;
if (s.raiddisks || s.level != UnSet) {
    pr_err("cannot change array size in same operation as changing raiddisks or level."
"    Change size first, then check that data is still intact.");
    rv = 1;
    break;
}
sysfs_init(&sra, mdfd, NULL);
if (array_size == MAX_SIZE)
    err = sysfs_set_str(&sra, NULL, "array_size", "default");
else
    err = sysfs_set_num(&sra, NULL, "array_size", array_size / 2);
if (err < 0) {
    if (errno == E2BIG)
        pr_err("--array-size setting is too large.");
    else
        pr_err("current kernel does not support setting --array-size");
    rv = 1;
    break;
}

if (devs_found > 1 && s.raiddisks == 0 && s.level == UnSet) {
    /* must be '-a': */
    if (s.size > 0 || s.chunk ||
        s.layout_str || s.bitmap_file) {
        pr_err("--add cannot be used with other geometry changes in --grow mode");
        rv = 1;
        break;
    }
    for (dv=devlist->next; dv ; dv=dv->next) {
        rv = Grow_Add_device(devlist->devname, mdfd,
            dv->devname);
        if (rv)
            break;
    }
} else if (s.bitmap_file) {
    if (s.size > 0 || s.raiddisks || s.chunk ||
        s.layout_str || devs_found > 1) {
        pr_err("--bitmap changes cannot be used with other geometry changes in --grow mode");
        rv = 1;
        break;
    }
if (c.delay == 0)
c.delay = DEFAULT_BITMAP_DELAY;
rv = Grow_addbitmap(devlist->devname, mdfd, &c, &s);
} else if (grow_continue)
rv = Grow_continue_command(devlist->devname,
    mdfd, c.backup_file,
    c.verbose);
else if (s.size > 0 || s.raiddisks || s.layout_str ||
    s.chunk != 0 || s.level != UnSet ||
    data_offset != INVALID_SECTORS) {
rv = Grow_reshape(devlist->devname, mdfd,
    devlist->next,
    data_offset, &c, &s);
} else if (array_size == 0)
pr_err("no changes to --grow\n");
break;
case INCREMENTAL:
if (rebuild_map) {
    RebuildMap();
}
if (c.scan) {
    rv = 1;
    if (devlist) {
        pr_err("In --incremental mode, a device cannot be given with --scan\n");
        break;
    }
    if (c.runstop <= 0) {
        pr_err("--incremental --scan meaningless without --run\n");
        break;
    }
    if (devmode == 'f') {
        pr_err("--incremental --scan --fail not supported\n");
        break;
    }
    rv = IncrementalScan(&c, NULL);
}
if (!devlist) {
    if (!rebuild_map && !c.scan) {
        pr_err("--incremental requires a device\n");
        rv = 1;
    }
    break;
}
if (devmode == 'f') {
    if (devlist->next) {
        pr_err("--incremental --fail can only handle one device\n");
        rv = 1;
    }
    break;
}
rv = IncrementalRemove(devlist->devname, remove_path,
    c.verbose);
} else
rv = Incremental(devlist, &c, ss);
break;
case AUTODETECT:
auodetect();
break;
}
exit(rv);

static int scan_assemble(struct supertype *ss,
    struct context *c,
    struct mddev_ident *ident)
{
    struct mddev_ident *a, *array_list = conf_get_ident(NULL);
    struct mddev_dev *devlist = conf_get_devs();
    struct map_ent *map = NULL;
    int cnt = 0;
    int rv = 0;
    int failures, successes;

    if (conf_verify_devnames(array_list)) {
        pr_err("Duplicate MD device names in conf file were found\n");
        return 1;
    }
    if (devlist == NULL) {
        pr_err("No devices listed in conf file were found\n");
        return 1;
    }
    for (a = array_list; a ; a = a->next) {
        a->assembled = 0;
        if (a->autof == 0)
            a->autof = c->autof;
        }
    if (map_lock(&map))
        pr_err("failed to get exclusive lock on mapfile\n");
    do {
        failures = 0;
        successes = 0;
        rv = 0;
        for (a = array_list; a ; a = a->next) {
            int r;
            if (a->assembled)
                continue;
            if (a->devname &&
                pr_err("Failed to assemble\n");
            if (map_unlock(&map))
                pr_err("failed to unlock mapfile\n");
            failures += r;
            successes += r;
        }
    } while (rv > 0 || successes == 0 || failures == 0 || failures > successes);
    return rv;
}
strcasecmp(a->devname, "<ignore>") == 0) continue;

r = Assemble(ss, a->devname, 
a, NULL, c);
if (r == 0) {
    a->assembled = 1;
    successes++;
} else
    failures++;
rv |= r;
cnt++;
}
} while (failures && successes);
if (c->homehost && cnt == 0) {
/* Maybe we can auto-assemble something.
 * Repeatedly call Assemble in auto-assemble mode
 * until it fails
 */
int rv2;
int acnt;
ident->autof = c->autof;
do {
    struct mddev_dev *devlist = conf_get_devs();
    acnt = 0;
    do {
        rv2 = Assemble(ss, NULL, 
                       ident, 
                       devlist, c);
        if (rv2 == 0) {
            cnt++;
            acnt++;
        }
    } while (rv2 != 2);
/* Incase there are stacked devices, we need to go around again */
} while (acnt);
if (cnt == 0 && rv == 0) {
    pr_err("No arrays found in config file or automatically\n");
    rv = 1;
} else if (cnt)
    rv = 0;
} else if (cnt == 0 && rv == 0) {
    pr_err("No arrays found in config file\n");
    rv = 1;
}
map_unlock(&map);
return rv;
static int misc_scan(char devmode, struct context *c)
{
/* apply --detail or --wait-clean to
 * all devices in /proc/mdstat */

struct mdstat_ent *ms = mdstat_read(0, 1);
struct mdstat_ent *e;
struct map_ent *map = NULL;
int members;
int rv = 0;

for (members = 0; members <= 1; members++) {
    for (e=ms ; e ; e=e->next) {
        char *name = NULL;
        struct map_ent *me;
        struct stat stb;
        int member = e->metadata_version &&
            strncmp(e->metadata_version,
                "external:/", 10) == 0;
        if (members != member)
            continue;
        me = map_by_devnm(&map, e->devnm);
        if (me && me->path
            && strcmp(me->path, "/unknown") != 0)
            name = me->path;
        if (name == NULL || stat(name, &stb) != 0)
            name = get_md_name(e->devnm);
        if (!name) {
            pr_err("cannot find device file for %s\n",
                e->devnm);
            continue;
        }
        if (devmode == 'D')
            rv |= Detail(name, c);
        else
            rv |= WaitClean(name, -1, c->verbose);
        put_md_name(name);
    }
}
free_mdstat(ms);
return rv;
}

static int stop_scan(int verbose)
{
/* apply --stop to all devices in /proc/mdstat */

/* Due to possible stacking of devices, repeat until */
/* nothing more can be stopped */

int progress=1, err;
int last = 0;
int rv = 0;
do {
    struct mdstat_ent *ms = mdstat_read(0, 0);
    struct mdstat_ent *e;

    if (!progress) last = 1;
    progress = 0; err = 0;
    for (e=ms ; e ; e=e->next) {
        char *name = get_md_name(e->devnm);
        int mdfd;

        if (!name) {
            pr_err("cannot find device file for %s\n",
                   e->devnm);
            continue;
        }
        mdfd = open_mddev(name, 1);
        if (mdfd >= 0) {
            if (Manage_stop(name, mdfd, verbose, !last))
                err = 1;
            else
                progress = 1;
            close(mdfd);
        }
    }
    put_md_name(name);
}
free_mdstat(ms);
while (!last && err);
if (err)
    rv |= 1;
return rv;

static int misc_list(struct mddev_dev *devlist,
                     struct mddev_ident *ident,
                     char *dump_directory,
                     struct supertype *ss, struct context *c)
{
    struct mddev_dev *dv;
    int rv = 0;

    for (dv=devlist ; dv; dv=(rv & 16) ? NULL : dv->next) {
int mdfd;

switch(dv->disposition) {
    case 'D':
        rv |= Detail(dv->devname, c);
        continue;
    case KillOpt: /* Zero superblock */
        if (ss)
            rv |= Kill(dv->devname, ss, c->force, c->verbose, 0);
        else {
            int v = c->verbose;
            do {
                rv |= Kill(dv->devname, NULL, c->force, v, 0);
                v = -1;
            } while (rv == 0);
            rv &= ~2;
        }
        continue;
    case 'Q':
        rv |= Query(dv->devname); continue;
    case 'X':
        rv |= ExamineBitmap(dv->devname, c->brief, ss); continue;
        case ExamineBB:
            rv |= ExamineBadblocks(dv->devname, c->brief, ss); continue;
            case 'W':
                rv |= Wait(dv->devname); continue;
                case Waitclean:
                    rv |= WaitClean(dv->devname, -1, c->verbose); continue;
                    case KillSubarray:
                        rv |= Kill_subarray(dv->devname, c->subarray, c->verbose);
                        continue;
                        case UpdateSubarray:
                            if (c->update == NULL) {
                                pr_err("-U/--update must be specified with --update-subarray\n");
                                rv |= 1;
                                continue;
                            }
                            rv |= Update_subarray(dv->devname, c->subarray,
                                c->update, ident, c->verbose);
                            continue;
                            case Dump:
                                rv |= Dump_metadata(dv->devname, dump_directory, c, ss);
                                continue;
                                case Restore:
                                    rv |= Restore_metadata(dv->devname, dump_directory, c, ss,
                                        (dv == devlist && dv->next == NULL));
                                    continue;
case Action:
rv |= SetAction(dv->devname, c->action);
continue;
}
if (dv->devname[0] == '\0')
mdfd = open_mddev(dv->devname, 1);
else {
mdfd = open_dev(dv->devname);
if (mdfd < 0)
pr_err("Cannot open %s\n", dv->devname);
}
if (mdfd>=0) {
switch(dv->disposition) {
    case 'R':
c->runstop = 1;
    rv |= Manage_run(dv->devname, mdfd, c); break;
    case 'S':
    rv |= Manage_stop(dv->devname, mdfd, c->verbose, 0); break;
    case 'o':
    rv |= Manage_ro(dv->devname, mdfd, 1); break;
    case 'w':
    rv |= Manage_ro(dv->devname, mdfd, -1); break;
}
close(mdfd);
} else
rv |= 1;
return rv;
}
int SetAction(char *dev, char *action)
{
int fd = open(dev, O_RDONLY);
struct mdinfo mdi;
if (fd < 0) {
pr_err("Couldn't open %s: %s\n", dev, strerror(errno));
return 1;
}
sysfs_init(&mdi, fd, NULL);
close(fd);
if (!mdi.sys_name[0]) {
pr_err("%s is no an md array\n", dev);
return 1;
}
if (sysfs_set_str(&mdi, NULL, "sync_action", action) < 0) {
pr_err("Count not set action for %s to %s: %s\n",
dev, action, strerror(errno));
1.23  c-ares 1.15.0+gitrAUTOINC+000e963fff  r0

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1.24  python3-pytz 2018.5  r0

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1.26 kexec-tools 2.0.17 r0

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

  * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
  *
  * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
  *
  * Linux driver for the IDT77201 NICStar PCI ATM controller.
  * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
  * see init_nicstar() for PHY initialization to change this. This driver
  * expects the Linux ATM stack to support scatter-gather lists
  * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

  * Implementing minimal-copy of received data:
  * IDT always receives data into a small buffer, then large buffers
  * as needed. This means that data must always be copied to create
  * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
  * Fix is simple: make large buffers large enough to hold entire
  * SDU, and leave <small_buffer_data> bytes empty at the start. Then
  * copy small buffer contents to head of large buffer.
  * Trick is to avoid fragmenting Linux, due to need for a lot of large
  * buffers. This is done by 2 things:
    * 1) skb->destructor / skb->atm.recycle_buffer
    * combined, allow nicstar_free_rx_skb to be called to
    * recycle large data buffers
    * 2) skb_clone of received buffers
  * See nicstar_free_rx_skb and linearize_buffer for implementation
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* M. Welsh, 6 July 1996
* *
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1.31 python3-pytest 3.4.2 r0

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Protocol Buffers for Go with Gadgets

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Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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proofs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
   ; CHECK-LABEL: test_sitofp_fixed:

; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
  %flt = sitofp <16 x i32> %in to <16 x double>
  %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
  ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
  ; CHECK-LABEL: test_sitofp_fixed_shortish:

  ; CHECK-DAG: scvtf.2d v0, v0
  ; CHECK-DAG: scvtf.2d v1, v1

  ; CHECK: ret
  %flt = sitofp <4 x i64> %in to <4 x double>
  %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
  ret <4 x double> %res
}
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</table>

; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph:                     ; preds = %entry
  br label %while.body

while.body:                           ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [ 
    i32 1, label %sw.bb.i 
    i32 2, label %sw.bb3.i 
  ]

sw.bb.i:                               ; preds = %while.body
  unreachable

sw.bb3.i:                              ; preds = %while.body
  unreachable

exit:                                  ; preds = %while.body
  switch i32 undef, label %exit.2 [ 
    i32 1, label %sw.bb.i17 
    i32 2, label %sw.bb3.i20 
  ]

sw.bb.i17:                             ; preds = %exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20: ; preds = %exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
  %3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
  %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
  br label %while.body

while.end: ; preds = %entry
  ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
  ObjectContainerBSDArchive.cpp

LINK_LIBS
  lldbCore
  lldbHost
  lldbSymbol
LINK_COMPONENTS
  Support
)
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<tr>
<td>OpenBSD regex</td>
<td>llvm/lib/Support/[^*]COPYRIGHT.regex}</td>
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<tr>
<td>pyyaml tests</td>
<td>llvm/test/YAMLParser/[*.data, LICENSE.TXT}</td>
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<td>llvm/lib/Support/MD5.cpp llvm/include/llvm/Support/MD5.h</td>
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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
}
define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000008000000000000000, %mul
    ret fp128 %res
}

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1.49 libgpiod 1.2 r0

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* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.
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* Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
* HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
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* Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)

1.51 zlib 1.2.11 r0

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1.56 ptest-runner

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

/* 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_nicstart() for PHY initialization to change this. This driver 
* expects the Linux ATM stack to support scatter-gather lists 
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push. 
* 
* Implementing minimal-copy of received data: 
* IDT always receives data into a small buffer, then large buffers 
* as needed. This means that data must always be copied to create 
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP) 
* Fix is simple: make large buffers large enough to hold entire 
* SDU, and leave <small_buffer_data> bytes empty at the start. Then 
* copy small buffer contents to head of large buffer. 
* Trick is to avoid fragmenting Linux, due to need for a lot of large 
* buffers. This is done by 2 things: 
* 1) skb->destructor / skb->atm.recycle_buffer
combined, allow nicstar_free_rx_skb to be called to
recycle large data buffers
2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation
details.

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  Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* M. Welsh, 6 July 1996
*
*/
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QLogic Linux Networking HBA Driver

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 */
#include "lxclxclock.h"
#include "config.h"
#include <unistd.h>
#include <signal.h>
#include <stdio.h>
#include <sys/types.h>
#include <sys/wait.h>
#include <stdlib.h>
#define mycontainername "lxctest.sem"
#define TIMEOUT_SECS 3

static void test_two_locks(void)
{
    struct lxc_lock *l;
    pid_t pid;
    int ret, status;
    int p[2];
    char c;

    if (pipe(p) < 0)
exit(1);

if ((pid = fork()) < 0)
exit(1);

if (pid == 0) {
if (read(p[0], &c, 1) < 0) {
    perror("read");
    exit(1);
}

  l = lxc_newlock("/tmp", "lxctest-sem");
  if (!l) {
    fprintf(stderr, "%d: child: failed to create lock\n", __LINE__);
    exit(1);
  }

  if (lxclock(l, 0) < 0) {
    fprintf(stderr, "%d: child: failed to grab lock\n", __LINE__);
    exit(1);
  }

  fprintf(stderr, "%d: child: grabbed lock\n", __LINE__);
  exit(0);
}

l = lxc_newlock("/tmp", "lxctest-sem");
if (!l) {
    fprintf(stderr, "%d: failed to create lock\n", __LINE__);
    exit(1);
}

if (lxclock(l, 0) < 0) {
    fprintf(stderr, "%d: failed to get lock\n", __LINE__);
    exit(1);
}

if (write(p[1], "a", 1) < 0) {
    perror("write");
    exit(1);
}

sleep(3);

ret = waitpid(pid, &status, WNOHANG);
if (ret == pid) { // task exited
  if (WIFEXITED(status)) {
    printf("%d exited normally with exit code %d\n", pid,

...
WEXITSTATUS(status));
if (WEXITSTATUS(status) != 0)
  exit(1);
} else
  printf("%d did not exit normally\n", pid);
return;
} else if (ret < 0) {
  perror("waitpid");
  exit(1);
}

kill(pid, SIGKILL);
wait(&status);
close(p[1]);
close(p[0]);
lxcunlock(l);
lxc_putlock(l);
}

int main(int argc, char *argv[])
{
  int ret;
  struct lxc_lock *lock;

  lock = lxc_newlock(NULL, NULL);
  if (!lock) {
    fprintf(stderr, "%d: failed to get unnamed lock\n", __LINE__);
    exit(1);
  }
  ret = lxclock(lock, 0);
  if (ret) {
    fprintf(stderr, "%d: failed to take unnamed lock (%d)\n", __LINE__, ret);
    exit(1);
  }
  ret = lxcunlock(lock);
  if (ret) {
    fprintf(stderr, "%d: failed to put unnamed lock (%d)\n", __LINE__, ret);
    exit(1);
  }
  lxc_putlock(lock);

  lock = lxc_newlock("/var/lib/lxc", mycontainername);
  if (!lock) {
    fprintf(stderr, "%d: failed to get lock\n", __LINE__);
    exit(1);
  }
struct stat sb;
char *pathname = RUNTIME_PATH "/lxc/lock/var/lib/lxc/";

ret = stat(pathname, &sb);
if (ret != 0) {
    fprintf(stderr, "%d: filename %s not created\n", __LINE__,
            pathname);
    exit(1);
}

lxc_putlock(lock);

test_two_locks();

fprintf(stderr, "all tests passed\n");

exit(ret);

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    eaddr = "http://bugs.ntp.org, bugs@ntp.org";
    type = ntp;
};

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;
version = 'eval VERSION=`sed -e 's/.*,\[/\[/ -e '\s/\].*\]/ < ../sntp/m4/version.m4` 
[ -z "${VERSION}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid 
echo $VERSION';

version-value = "j/* Don't use -v as a shortcut for --version */

/*
 * HMS: man pages already have this, and texi pages can use the
 * values in sntp/include/version.texi .
 */
// doc-sub = {
//     sub-name = version;
//     sub-text = 's/#VERSION#/<<version>>/g';
// }
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/*
#include "config.h"

#if HAVE_AFNETROM || HAVE_HWNETROM
#include <sys/types.h>
#include <sys/ioctl.h>
#include <sys/socket.h>
#include <net/if_arp.h>
#else
#include <net/ax25.h>
#endif
#include <linux/ax25.h>
#endif
#endif
#endif
#endif
#include <stdlib.h>
#include <stdio.h>
#include <ctype.h>
#include <errno.h>
#include <fcntl.h>
#include <string.h>
#include <termios.h>
#include <unistd.h>
#include "net-support.h"
#include "pathnames.h"
#include "intl.h"
#include "util.h"

static char netrom_errmsg[128];

extern struct aftype netrom_aftype;

static char *NETROM_print(unsigned char *ptr)
{
    static char buff[8];
    int i;

    for (i = 0; i < 6; i++) {
        buff[i] = ((ptr[i] & 0377) >> 1);
        if (buff[i] == ' ')
            buff[i] = '\0';
    }
    buff[6] = '\0';
    i = (ptr[6] & 0x1E) >> 1;
    if (i != 0)
sprintf(&buff[strlen(buff)], "-%d", i);
return (buff);
}

/* Display an AX.25 socket address. */
static char *NETROM_sprint(struct sockaddr *sap, int numeric)
{
char buf[64];
if (sap->sa_family == 0xFFFF || sap->sa_family == 0)
return safe_strncpy(buf, _("[NONE SET]"), sizeof(buf));
return (NETROM_print(((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call));
}

static int NETROM_input(int type, char *bufp, struct sockaddr *sap)
{
unsigned char *ptr;
char *orig, c;
unsigned int i;
sap->sa_family = netrom_aftype.af;
ptr = ((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call;
/* First, scan and convert the basic callsign. */
orig = bufp;
i = 0;
while ((*bufp != '\0') && (*bufp != '-') && (i < 6)) {
c = *bufp++;
if (islower(c))
c = toupper(c);
if (!(isupper(c) || isdigit(c))) {
safe_strncpy(netrom_errmsg, _("Invalid callsign"), sizeof(netrom_errmsg));
#ifdef DEBUG
fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
#endif
errno = EINVAL;
return (-1);
}
*ptr++ = (unsigned char) ((c << 1) & 0xFE);
i++;
}
/* Callsign too long? */
if ((i == 6) && (*bufp != '-') && (*bufp != '\0')) {
safe_strncpy(netrom_errmsg, _("Callsign too long"), sizeof(netrom_errmsg));
#ifdef DEBUG
fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);

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errno = E2BIG;
return (-1);
}
/* Nope, fill out the address bytes with blanks. */
while (i++ < sizeof(ax25_address) - 1) {
*ptr++ = (unsigned char) ((i << 1) & 0xFE);
}
/* See if we need to add an SSID field. */
if (*bufp == '-') {
    i = atoi(++bufp);
    *ptr = (unsigned char) ((i << 1) & 0xFE);
} else {
    *ptr = (unsigned char) '\0';
}
/* All done. */
#ifdef DEBUG
    fprintf(stderr, "netrom_input(%s): ", orig);
    for (i = 0; i < sizeof(ax25_address); i++)
        fprintf(stderr, "%02X ", sap->sa_data[i] & 0377);
    fprintf(stderr, "\n");
#endif
return (0);
}
/* Display an error message. */
static void NETROM_herror(char *text)
{
    if (text == NULL)
        fprintf(stderr, "%s
", netrom_errmsg);
    else
        fprintf(stderr, "%s: %s
", text, netrom_errmsg);
}
static int NETROM_hinput(char *bufp, struct sockaddr *sap)
{
    if (NETROM_input(0, bufp, sap) < 0)
        return (-1);
    sap->sa_family = ARPHRD_NETROM;
    return (0);
}
#if 0

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/* Set the line discipline of a terminal line. */
static int KISS_set_disc(int fd, int disc)
{
    if (ioctl(fd, TIOCSETD, &disc) < 0) {
        fprintf(stderr, "KISS_set_disc(%d): %s\n", disc, strerror(errno));
        return (-errno);
    }
    return (0);
}

/* Start the KISS encapsulation on the file descriptor. */
static int KISS_init(int fd)
{
    if (KISS_set_disc(fd, N_SLIP) < 0)
        return (-1);
    if (ioctl(fd, SIOCSIFENCAP, 4) < 0)
        return (-1);
    return (0);
}

struct hwtype netrom_hwtype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ ARPHRD_NETROM, 7,
    NETROM_print, NETROM_hinput, NULL, 0
};

struct aftype netrom_aftype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ AF_NETROM, 7,
    NETROM_print, NETROM_sprint, NETROM_input, NETROM_herror,
    NULL, NULL, NULL,
    -1,
    "/proc/net/nr"
};

#ifndef /* HAVE_AFNETROM */

1.75 iperf2 2.0.10 r0
1.75.1 Available under license :

<!-- $Id: ui_license.html,v 1.1.1.1 2004/05/18 01:50:44 kgibbs Exp $ -->

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1.76 gdbm 1.18 r0
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Open Source Used In XE-SDK 17.3 17.3-3.2.2 1032
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<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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

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Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.79 python3-pycrypto 2.6.1 r0
1.79.1 Available under license:

Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):

Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.
To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

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From dlitz@dlitz.net Sat Feb 28 23:24:14 2009
Date: Sat, 28 Feb 2009 23:24:14 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Jeethu Rao <jeethurao@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2513

Hi Jeethu,
I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
   by rivest.dlitz.net (Postfix) with ESMTP id OCC83515D9
   for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 17:28:16 -0400 (EDT)
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   for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 15:28:15 -0600 (CST)
   Received: (vmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600
   Delivered-To: m-dlitz-dlitz@dlitz.net
   Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in
   'mfrom' identity (mechanism 'ip4:209.85.128.0/17 matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
   from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
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   for <dlitz@dlitz.net>; Sun,  8 Mar 2009 15:28:12 -0600 (CST)
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   for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
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d=gmail.com; s=gamma;
h=mime-version:in-reply-to:references:date:message-id:subject:from:to
 :content-type;
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MIME-Version: 1.0
Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;
Sun, 08 Mar 2009 14:27:54 +0700 (PDT)
In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>
References: <20090301042414.GA15122@rivest.dlitz.net>
Date: Mon, 9 Mar 2009 02:57:54 +0530
Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>
Subject: Re: PyCrypto license clarification
From: Jeethu Rao <jeethurao@gmail.com>
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).
I'd be fine with the public domain license for PyCrypto.

Jeethu Rao
PS: Apologies for the delay in my response.
I don't really check this email address all that often,
please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
> 
> People often ask me what license PyCrypto is covered by, if it's
> GPL-compatible, etc. Right now, I'm not really sure what to tell them. The
> text in the current LICENSE file (quoted below) is not entirely clear on the
> point of whether distributing modified versions is allowed. (It says
> "distribute and use", but not "modify".)
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> ===================================================================

> Incorporating the code into commercial products is permitted; you do
> not have to make source available or contribute your changes back
> (though that would be nice).
> 
> --amk
> (www.amk.ca)

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> clearer licensing regime. I am asking as many copyright holders as I can
> find if I can release PyCrypto under something clearer and more standard.
Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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

Regards,
-Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
--
Dwayne C. Litzenberger <dlitz@dlitz.net>

--000e0cd209d0e5a3d40464a23054
Content-Type: text/html; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Hi Dwayne,<div>My contribution to pycrypto are very very minimal (The sha256 module, IIRC).&lt;/div&gt;&lt;div&gt;I'd be fine with the public domain license for PyCrypto.&lt;/div&gt;&lt;div&gt;Jeethu Rao&lt;/div&gt;&lt;div&gt;PS: Apologies for the delay in my response.=&lt;/div&gt;&lt;div&gt;I don't really check this email address all that often.&lt;/div&gt;&lt;div&gt;Please direct any further correspondence to &lt;a href=3D"mailto:jeethu@jeethurao.com"&gt;jeethu@jeethurao.com&lt;/a&gt;&lt;br&gt;&lt;br&gt;&lt;div class=3D"gmail_quote"&gt;On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger &lt;span dir=3D"ltr"&gt;&lt;a href=3D"mailto:dlitz@dlitz.net"&gt;dlitz@dlitz.net&lt;/a&gt;&lt;/span&gt; wrote:&lt;br&gt;&lt;br&gt;&lt;blockquote class=3D"gmail_quote" style=3D"margin:0 0 0.8ex; border-left:1px #ccc solid; padding-left:1ex;"&gt;Hi Jeethu,&lt;br&gt;&lt;br&gt;"</div>
I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it is GPL-compatible, etc. Right now, I am not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

```
--amk (<a href="http://www.amk.ca" target="_blank">www.amk.ca</a>)
```

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```
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```

```
``
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Regards,
- Dwayne

--
Dwayne C. Litzenberger <<a href="mailto:dlitz@dlitz.net" target=3D"_blank">dlitz@dlitz.net</a>>
=A0 =A0 =A0Key-signing key =A0 - 19E1 1FE8 B3CF F273 ED17 =A0A04A24 928C EC1=3D 39C2 5CF7
</font></blockquote></div>

--000e0cd209d0e5a3d40464a23054--
00INDEX This file LICENSE.orig Original (deprecated) license for the Python Cryptography Toolkit LICENSE.libtom LICENSE file from LibTomCrypt stmts/ Statements by contributors

From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008 X-Maildir-Dup-Checked: Yes Return-Path: <dlitz@dlitz.net> Delivered-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6]) by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT) Received: from localhost (localhost [127.0.0.1]) by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:05 -0600 (CST) Received: (vmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:02 +0100 (CET)

To: crypt@bis.doc.gov,
enc@nsa.gov,
web_site@bis.doc.gov,
pycrypto@lists.dlitz.net,
PYTHON-CRYPTO@NIC.SURFNET.NL,
dlitz@dlitz.net

Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net
designates 64.5.53.201 as permitted sender) identity=mailfrom;
client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;
helo=goedel.dlitz.net; mechanism=all; envelope-from=dlitz@dlitz.net;

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taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100
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goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1
for <post@stamper.itconsult.co.uk>; Wed, 27 Aug 2008 18:42:56 -0600 (CST)
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id B92F8C66420; Wed, 27 Aug 2008 20:42:56 -0400 (EDT)
Received: by rivest.dlitz.net (tmda-sendmail, from uid 1000);
Date: Wed, 27 Aug 2008 20:42:54 -0400
Cc: post@stamper.itconsult.co.uk
Subject: PyCrypto TSU NOTIFICATION
Message-ID: <20080828004254.GA31214@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
X-Delivery-Agent: TMDA/1.1.9 (Jura)
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
X-DNSBL: 0
Status: O
Content-Length: 2182

-----BEGIN PGP SIGNED MESSAGE-----

# This is a proof of posting certificate from
dlitz@dlitz.net certifying that a user
# claiming to be:-
#  dlitz@dlitz.net
# requested that this message be sent to:-
#  crypt@bis.doc.gov
#  enc@nsa.gov
#  web_site@bis.doc.gov
#  pycrypto@lists.dlitz.net
#  PYTHON-CRYPTO@NIC.SURFNET.NL
#  dlitz@dlitz.net
#
# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978
#
# CAUTION: while the message may well be from the sender
# indicated in the "From:" header, the sender
# has NOT been authenticated by this service
#
# For information about the Stamper service see
# http://www.itconsult.co.uk/stamper.htm
#
########################################################

SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- --
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----
Version: 2.6.3i
Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

===================================================================
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk
(www.amk.ca)
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I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
    for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
    for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (qmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 23:25:33 -0000
Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])
    by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE
    for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,

Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,


I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/. People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

```
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk

(www.amk.ca)

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> _Intellectual Property and Open Source: A Practical Guide_
> to Protecting
> Code_, by Van Lindberg. I have already contacted A.
> M. Kuchling, Robey
> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they
> have all
> approved the following dedication for their contributions.
> 
> I understand that you have made contributions to
> PyCrypto. May I, on your
> behalf, dedicate to the public domain all your
> contributions to PyCrypto,
> with the following notice?
> 
> ==============================================================
> The contents of this file are
> dedicated to the public domain. To the
> extent that dedication to the public
> domain is not available, everyone
> is granted a worldwide, perpetual,
> royalty-free, non-exclusive license
> to exercise all rights associated with
> the contents of this file for
> any purpose whatsoever. No
> rights are reserved.
> 
> ==============================================================
> 
> Regards,
> - Dwayne
> 
> -- Dwayne C. Litzenberger <dlitz@dlitz.net>
> Key-signing key   - 19E1
> 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
> 
> From dlitz@dlitz.net Mon Apr 20 20:01:37 2009
> Date: Mon, 20 Apr 2009 20:01:37 -0400
> From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
> To: moraes@computer.org
> Subject: Re: PyCrypto license clarification
> Message-ID: <20090421000137.GA29012@rivest.dlitz.net>
> References: <551071.34569.qm@web32405.mail.mud.yahoo.com>
> MIME-Version: 1.0
> Content-Type: text/plain; charset=us-ascii; format=flowed
> Content-Disposition: inline
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

> Hi Dwayne.

> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

> Regards,

> Mark.

> --- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

>> From: Dwayne C. Litzenberger <dlitz@dlitz.net>

>> Subject: PyCrypto license clarification

>> To: "Mark Moraes" <moraes@computer.org>

>> Date: Saturday, April 18, 2009, 9:14 AM

>> Hi Mark,

>> I am the new maintainer of the Python Cryptography Toolkit,

>> working on a new release at http://www.pycrypto.org/.

>> People often ask me what license PyCrypto is covered by, if

>> it's

>> GPL-compatible, etc. Right now, I'm not really sure

>> what to tell them.

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Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk

(www.amk.ca)

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I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?
Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.
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=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

Thanks,

Joris
I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
Joris

Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:

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> >=======================================================================
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>
> >--amk (www.amk.ca)
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======================================================================
```

Regards,
-Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
> Hi Dwayne,
> 
> Thanks for taking over the PyCrypto library and putting in the required
effort to keep this going.
> I was very excited to read that it is now one of the installed libraries
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>
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> 
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======================================================================
```

Regards,

- Dwayne

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Key-signing key  - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

---

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key  - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1
By making a contribution to this project, I certify that:

(a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

=== EOF ===
Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

===================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key  - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug  3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
  by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
  by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003);  3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in
'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
  by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066
for <dlitz@dlitz.net>; Mon,  3 Aug 2009 10:14:05 -0600 (CST)
Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3
  for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
  d=gmail.com; s=gamma;
  h=mime-version:in-reply-to:references:from:date:message-id:subject:to:
  content-type:content-transfer-encoding;
  bh=A0RHBf0TnrhKS5qOHJ3WYbkZ+b0cuPeuoKAfvPwcc=;
  b=gyTqRkhKlHadFkIZCBWSRbnMNVDqj1PW1hbyCOEvxPskaoHr3HAR96MWQNBePu/40Ac
  Vn5qIqTDom4e9zUE66Mzw9Q9kJ/Qw0L/SLib0DIQeNqo/eHYqPmuVswitaYwNAyMJ
  Y9+76rPGqzydALsfmsmvw7Q3/bEmjVT0tQF=
DomainKey-Signature: a=rsa-sha1; c=nofws;
  d=gmail.com; s=gamma;
  h=mime-version:in-reply-to:references:from:date:message-id:subject:
  content-type:content-transfer-encoding;
  bh=jze7KSMeUGilVCXKXaaXMxM5NaTgDMDQ0tVZZfIRNyG5y68xO82sxefjyig3EfT6Nv6
  Q3opUMsT96Q6zjZND55w446kThzuBTI=4d3NwIeEWWjntG3xcIriRQu/mXFPf8AzP13CefL
  1omJLM1eQ2XyuZA7jsem+SjtfdHUcSD1UbgI=
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
> Hi Paul,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.

That's great!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the publi
> c domain all your contributions to PyCrypto, with the following notice?
> 
> =C2=A0The contents of this file are dedicated to the public domain. =C2=A0To the
> extent that dedication to the public domain is not available, every=one
> =C2=A0is granted a worldwide, perpetual, royalty-free, non-exclusive lice=
> nse
> =C2=A0to exercise all rights associated with the contents of this file for
> any purpose whatsoever. =C2=A0No rights are reserved.
>
> Yes, that's fine. Good luck with the new release!
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
> >> Hi Paul,
> >>
> >> I am the new maintainer of the Python Cryptography Toolkit, and I am
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> >> domain all your contributions to PyCrypto, with the following notice?
> >>
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Open Source Used In XE-SDK 17.3 17.3-3.2.2 1063

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>> =======================================================================
>
> Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

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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<th>Year</th>
<th>Owner</th>
<th>GPL-compatible?</th>
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Footnotes:

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Thanks to the many outside volunteers who have worked under Guido's
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Date: Mon, 16 Feb 2009 12:58:00 -0800
From: Robey Pointer <robey@lag.net>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)
Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

> For the next PyCrypto release, I would like to take steps to move
> toward a clearer licensing regime. I am asking as many copyright
> holders as I can find if I can release PyCrypto under something
> clearer and more standard. Below, I have quoted a public domain
> dedication that was recommended in _Intellectual Property and Open
> Source: A Practical Guide to Protecting Code_, by Van Lindberg. I
> have already contacted A. M. Kuchling, and he has approved the
> following dedication for his contributions.
> >
> > May I, on your behalf, dedicate to the public domain all your
In case I haven't replied to this yet: Yes, this is fine with me.

robey
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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--amk (www.amk.ca)

For the next PyCrypto release, I'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can find, starting with you, if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_ by Van Lindberg.

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Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

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-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

The intention is that it be public domain.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

You may.

--amk

00INDEX - This file
tsu-notify.mbox - Notification sent per U.S. export regulations
copy/ - Copyright info & public-domain dedications

Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
On November 23, 2008, you wrote:

> Hi Wim,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
>
> I understand that you have made contributions to PyCrypto. May I, on
> your behalf, dedicate to the public domain all your contributions to
> PyCrypto, with the following notice?
>
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Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license,
distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----
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From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
    Key-signing key  - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=
> working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important =20=
Python library.

> I understand that you have made contributions to PyCrypto. May I, =20=
> on your behalf, dedicate to the public domain all your contributions =20=
> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

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Version: GnuPG v1.4.9 (Darwin)
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=3DQduY
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1.84 lsof 4.91 r0

1.85 vim 8.1.0347 r0
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1.86 protobuf-c

1.3.1+gitAUTOINC+269771b4b4 r0

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// http://www.boost.org/LICENSE_1_0.txt)
//
//
//------------------------------------------------------------------------------

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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

#if defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once
#endif

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

namespace boost {
namespace container {
namespace dtl {

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

} // namespace dtl
} // namespace container
} // namespace boost

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

template <class T, class=void>
struct is_transparent
{
  static const bool value = false;
};

template <class T>
struct is_transparent<T, typename T::is_transparent>
{
  static const bool value = true;
};

template <typename C, typename K, typename R>
struct enable_if_transparent
  : boost::move_detail::enable_if_c<dtl::is_transparent<C>::value, R>{};

} //namespace dtl {
} //namespace container {
} //namespace boost {

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

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href="../../../../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.79.1">
<link rel="home" href="../index.html" title="Chapter 1. Boost.TypeTraits">
<link rel="up" href="../index.html" title="Chapter 1. Boost.TypeTraits">
<link rel="prev" href="intrinsics.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
<table cellpadding="2" width="100%">
<tr>
<td valign="top"> <img alt="Boost C++ Libraries" width="277" height="86" src="../../../../boost.png"></td>
<td align="center"> <a href="../../../../index.html">Home</a></td>
<td align="center"> <a href="../../../../libs/libraries.htm">Libraries</a></td>
<td align="center"> <a href="http://www.boost.org/users/people.html">People</a></td>
<td align="center"> <a href="http://www.boost.org/users/faq.html">FAQ</a></td>
<td align="center"> <a href="../../../../more/index.htm">More</a></td>
</tr></table>
<hr>
<div class="spirit-nav">
<a accesskey="p" href="intrinsics.html"><img src="../../../../doc/src/images/prev.png" alt="Prev"></a><a accesskey="u" href="../index.html"><img src="../../../../doc/src/images/up.png" alt="Up"></a><a accesskey="h" href="../index.html"><img src="../../../../doc/src/images/home.png" alt="Home"></a><a accesskey="n" href="examples.html"><img src="../../../../doc/src/images/next.png" alt="Next"></a>
</div>
<div class="section">
<div class="titlepage">
<div><div><h2 class="title" style="clear: both">
<a name="boost_typetraits.mpl"></a><a class="link" href="mpl.html" title="MPL Interoperability">MPL Interoperability</a>
</h2></div></div></div>
<p> All the value based traits in this library conform to MPL’s requirements for an Integral Constant type.</p>
</div>
</body>
</html>
Please note that these types no longer inherit from `<code class="computeroutput">mpl<code class="identifier">true_</code></code> or `<code class="computeroutput">mpl<code class="identifier">false_</code></code> etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `<code class="computeroutput">integral_constant</code>` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.
Open Source Used In XE-SDK 17.3 17.3-3.2.2 1131
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

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

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;

using boost::move_detail::add_const_if_c;

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

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

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

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     \
    template <typename T>                                          \
    struct boost_intrusive_has_type_ ## TNAME                      \
    {
        template <typename X>                                       \
        static char test(int, typename X::TNAME*);                  \
        \
        template <typename X>                                       \
        static int test(...);                                       \
        \
        static const bool value = (1 == sizeof(test<T>(0, 0)));     \
    };                                                             \

    template <typename T, typename DefaultType>                    \
    struct boost_intrusive_default_type_ ## TNAME                  \
    {
        struct DefaultWrap { typedef DefaultType TNAME; };        \
        \
        typedef typename                                            \
                        ::boost::intrusive::detail::if_c                         \
                        < boost_intrusive_has_type_ ## TNAME<T>::value        \
                        , T, DefaultWrap>::type::TNAME type;                  \
    };                                                             \

    //
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)   \


typedef typename INSTANTIATION_NS_PREFIX boost_intrusive_default_type_## TNAME< T, TIMPL >::type

//
#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME)
INSTANTIATION_NS_PREFIX
boost_intrusive_has_type_## TNAME< T >::value

//
#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)

template <typename T, typename DefaultType>
struct boost_intrusive_eval_default_type_## TNAME
{
    template <typename X>
    static char test(int, typename X::TNAME*);

    template <typename X>
    static int test(...);

    struct DefaultWrap
    {
        typedef typename DefaultType::type TNAME;
    };

    static const bool value = (1 == sizeof(test<T>(0, 0)));

    typedef typename
    ::boost::intrusive::detail::eval_if_c
    < value
    , ::boost::intrusive::detail::identity<T>
    , ::boost::intrusive::detail::identity<DefaultWrap>
    >::type::TNAME type;
};

//
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)

typedef typename INSTANTIATION_NS_PREFIX
boost_intrusive_eval_default_type_## TNAME< T, TIMPL >::type

//
#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND)

template <class T>
struct TRAITS_PREFIX##_bool
{
    template<bool Add>
    struct two_or_three {yes_type _[2 + Add];};

    template <class U> static yes_type test(...);

    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);
static const std::size_t value = sizeof(test<T>(0));
};//

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

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

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

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE.Signature(TRAITS_NAME, FUNC_NAME)
  BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)

//

template <typename Type, class>
struct TRAITS_NAME\
    : public TRAITS_NAME##_ignore_signature<Type> \
{
};

//

} //namespace detail
} //namespace intrusive
} //namespace boost

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

#ifndef //BOOST_INTRUSIVE_DETAIL_MPL_HPP
</html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
<title>&amp;#8212; Boost.HigherOrderFunctions 0.6 documentation</title>
<link rel="stylesheet" href="_static/boostbook.css" type="text/css"/>
<link rel="stylesheet" href="_static/pygments.css" type="text/css"/>

<script type="text/javascript">
    DOCUMENTATION_OPTIONS = {
        URL_ROOT:  './',
        VERSION:  '0.6',
        COLLAPSE_INDEX: false,
        FILE_SUFFIX: '.html',
        HAS_SOURCE: true,
        SOURCELINK_SUFFIX: '.txt'
    };
</script>
<script type="text/javascript" src="_static/jquery.js"></script>
<script type="text/javascript" src="_static/underscore.js"></script>
<script type="text/javascript" src="_static/doctools.js"></script>
<link rel="index" title="Index" href="genindex.html"/>
<link rel="search" title="Search" href="search.html"/>
</head>
<body role="document">
<table cellpadding="2" width="100%">
    <tr>
        <td valign="top">Boost C++ Libraries</td>
    </tr>
</table>
<div class="spirit-nav">
    <a accesskey="p" >Prev</a>
</div>
</body>
</html>
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The header `<boost/mp11/mp11.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

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 * Boost Software License, Version 1.0. (See accompanying file 
 * LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
 * */
#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

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

std::ostream& operator << (std::ostream& os, const split_path& p)
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"">"
    "<html>
    "<head>
    "<title>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
    os << 
    
    "</head>
    "</body>";
"<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
ostringstream os;
"</H1>
"<H2>Contents</h2>
"<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
ostringstream os;
" <a href="#summary">Licence Summary</a></pre>
" <a href="#details">Licence Details</a>
while(i != j)
{
    // title:
ostringstream os;
"<a href="#files">Files with no recognised license</a>"
"<a href="#copyright">Copyright Holder Information</a>
if(!m_bsl_summary_mode)
{
    os << "Moving to the Boost Software License...\n";
" <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>"
" <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>"
}
ostringstream os;
"<a href="#depend">File Dependency Information</a>"
"</pre>"
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:]*#\s*define\s+[\:\[:blank:]]*BOOST_VERSION\([\:\[\[:blank:]]*([\[:blank:]]+);_$\]");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "</P><br>";
}

// output each license:
//
// fileview licence_file(m_license_data.begin(), m_license_data.end(), what, version_regex))
//
// start with the summary:
//
// os << "<a name="summary"></a><h2>Licence Summary</h2>
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 " << 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 << "<h2>Licence Details</h2>
while(i != j)
{
  // title:
os << "<H3><A name="" << make_link_target(licenses.first[i->first].license_name) << "></A>" << licenses.first[i->first].license_name << "</H3>\n";
  // 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><BLOCKQUOTE><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>\n";
++x;
os << "</P></BLOCKQUOTE>\n";
    // Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:"
      std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
os << split_path(m_boost_path, *m) << "<br>\n";
++m;
os << "</P></BLOCKQUOTE>\n";
  }
  else
  {
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
  }
  ++license_index;
}
++i;

// Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2><p>
"<p>The following " << m_unknown_licenses.size() << " files had no recognisable license information:
"<< 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><p>
"<p>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:
"<< 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><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:
"<< BLOCKQUOTE><p>
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: &lt;tt&gt;" << split_path(m_boost_path, i->first)
        << "&lt;/tt&gt;&lt;br&gt;\n &lt;tr&gt;\n &lt;td&gt;&lt;pre&gt;
        << i->second.first << "&lt;/pre&gt;&lt;/td&gt;\n &lt;td&gt;&lt;pre&gt;
        << i->second.second << "&lt;/pre&gt;&lt;/td&gt;\n &lt;/tr&gt;\n&lt;/table&gt;\n";
    ++i;
    ++file_num;
}

// Output list of files that could be moved over to the Boost Software License
//
// The following &lt;pre&gt; files could be manually converted to the Boost Software License, but have not yet been:
//\n&lt;BLOCKQUOTE&gt;&lt;P&gt;

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),

std::ostream_iterator<std::string>(os, "<br/>");
os << "</p></BLOCKQUOTE>
;

// output a table of copyright information:

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

// output file dependency information:

//
os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>"
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
while(i != ie)
bad_paths.insert(i->first);
++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P><br/>
} 
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;
        }
    os << "</pre></BLOCKQUOTE><br/>

    os << "</body></html><br/>

    if(!os)
    {
        std::string msg("Error writing to ");
        msg += m_dest_path.string();
        msg += ", ";
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

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

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauhamann@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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</body>
</html>

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<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>

<!--ulink url="..../index.htm"

<imagedata align="left"
    format="GIF"
    fileref="..../boost.png"
    alt="C++ Boost"/>

<!--hr//-->

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Maybe this should pass?

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

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

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

    def fix_copyright(filename):
        # Find copyright block in original file
        prefix = set()
        names = []
lines = []
with open(filename, 'r') as f:
    content = list(f)
for i, line in enumerate(content[:15]):
    m = re.match(r'^(?P<prefix>\W*)(\(c\))\s*copyright\(\(c\)\)?\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)
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Boost.MPL adapters

**Description**

Adapters for Boost.MPL containers.

### Classes

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

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

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

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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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Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)
Paul Mensonides (pmonso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)
Robert Ramey (ramey@www.rrsd.com)
Roland Richter (roland -at- fill.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)
Roland Schwarz (roland.schwarz -at- chello.at)
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)
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_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

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

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <cstdint>
namespace boost {
namespace interprocess {
namespace ipcdetail {

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

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

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

typedef true_  true_type;
typedef false_ false_type;

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

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

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

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

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

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

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

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

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

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

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

#endif  //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

===========================================================================
Copyright (c) 2007-2011 Barend Gehrels, Amsterdam, the Netherlands.
Copyright (c) 2008-2011 Bruno Lalande, Paris, France.
Copyright (c) 2009-2011 Mateusz Loskot, London, UK.

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http://www.boost.org/LICENSE_1_0.txt)

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

The default copyright note for C++ source files reads:

// Boost.Geometry (aka GGL, Generic Geometry Library)

// Copyright (c) 2007-2011 Barend Gehrels, Amsterdam, the Netherlands.
// Copyright (c) 2008-2011 Bruno Lalande, Paris, France.
// Copyright (c) 2009-2011 Mateusz Loskot, London, UK.

// Parts of Boost.Geometry are redesigned from Geodan's Geographic Library
// (geolib/GGL), copyright (c) 1995-2010 Geodan, Amsterdam, the Netherlands.

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// http://www.boost.org/LICENSE_1_0.txt)

Exceptions:
1) Major work of any author -> might change order, change date
2) Exclusive work of one author including design -> might take sole copyright
Examples:
  - adapted geometry types e.g. array, Boost.Polygon
  - implemented file-format e.g. WKB

Open Source Used In XE-SDK 17.3 17.3-3.2.2 1169
- implemented specific strategy or algorithm e.g. intersections
3) Examples -> might take sole copyright
4) Tests -> might take sole copyright
5) Docs -> might take sole copyright
6) Utilities e.g. converters -> might take sole copyright

The copyright note for other (source) files as .py, Jamfiles, etc is similar
and comments are changed accordingly.

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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() {}
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

-- Nathan

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

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

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

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.

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> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didn't notice the license 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 dictate 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

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
>
> > -----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:
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> > > and see if he wants to relicense his code as LGPL... but at this
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> it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
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> > 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
> > > 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....
> >
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> > timeframe.
> >
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> > 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 1IcOcX-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: <1b1b3fd80710010908k11dadc0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>


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

Happy now? :-)

-a

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Version 2.1, February 1999

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

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

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

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

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

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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.

^L

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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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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.

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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
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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
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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/apinames.c
src/tools/frandom/frandom.c
#
# EOF

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

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

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use strict;
use warnings;

my $margin = 72;

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR} || $ENV{UPDATE_COPYRIGHT_YEAR} =~ m/^\d\d\d\d$/ ? $year + 1900 : $year;

my $old_re = "\n\n\n(\n(?:^|\n)\n\)\n
use strict;
use warnings;

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR} || $ENV{UPDATE_COPYRIGHT_YEAR} =~ m/^\d\d\d\d$/ ? $year + 1900 : $year;

my $old_re = <<'EOF'
(?
(?:^\n)\n
my $margin = 72;

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR} || $ENV{UPDATE_COPYRIGHT_YEAR} =~ m/^\d\d\d\d$/ ? $year + 1900 : $year;

my $old_re = <<'EOF'
(?
(?:^\n)\n
my $margin = 72;

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR} || $ENV{UPDATE_COPYRIGHT_YEAR} =~ m/^\d\d\d\d$/ ? $year + 1900 : $year;

my $old_re = <<'EOF'
(?
(?:^\n)\n
my $margin = 72;

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR} || $ENV{UPDATE_COPYRIGHT_YEAR} =~ m/^\d\d\d\d$/ ? $year + 1900 : $year;

my $old_re = <<'EOF'
(?
(?:^\n)\n
"
while (/($old_re)/gx) {
    my $start = pos() - length ($1);
    my $b4_copyright_line = $2;
    my $year_lines = $3;
    my $final_year = $4;
    $year_lines .= ');
    # If there was a second argument, it contains years, so update them.
    if ($final_year)
        {
            $b4_copyright_line .= ',';
            if ($final_year != $this_year)
                {
                    # Update the year.
                    $year_lines =~ s/$final_year/$final_year, $this_year/;
                }
            # Normalize all whitespace.
            $year_lines =~ s/\s+/ /g;
            # Put spaces after commas.
            $year_lines =~ s/, ?, /, /g;
            # Compress to intervals.
            $year_lines =~
                s/\d\d\d\d(\d{-}$this_year)/$this_year/;
        }
    # Normalize all whitespace.
    $year_lines =~ s/\s+/ /g;
    # Put spaces after commas.
    $year_lines =~ s/, ?, /, /g;
    # Compress to intervals.
    $year_lines =~
        s/\d\d\d\d(\d{-}$this_year)/$this_year/;

if ($2 eq '-') { \'d{4}\'; } 
elsif (!$3) { $1 + 1; } 
else { $3 + 1; })
)+)/
/$1-$3/gx;

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

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

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

while (/\bb4_copyright\b/g)
{
    my $start = pos () - length ($1);
    my $end = pos ();
    my $re = $old_re;
pos () = $start;
$re =~ s/#BEFORE/\G/;
if (!/$re/x)
{
    my $line = (substr ($_, 0, $start) =~ s/\n/\n/g) + 1;
    print STDERR
"$ARGV:$line: warning: failed to update a b4_copyright\n"
}
pos () = $end;
}

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

1.113 netbase 5.4 r0
1.113.1 Available under license:

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1.114 libxml 2.9.8 r0
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1.115 wireshark 2.6.10 r0

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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
@@ -522,7 +522,7 @@
 #if defined(_WIN32)
 absolute_path = get_datafile_path("COPYING.txt");

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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:
     https://www.python.org/downloads/source/

If you want to use the Wireshark GUI, install one or both of these toolkits:

  gtk+ 2.12 or later:
     ftp.gnome.org:/pub/gnome/sources/gtk+

  Qt 4.7 or later:
     http://download.qt-project.org/official_releases/qt/

(These programs may require additional dependencies)
Additional programs can be used to enhance Wireshark's functionality. These can be found by typing ./configure --help or looking at the output at the end of running the configure script.

2. Compiling Wireshark
-----------------------
To compile Wireshark with the default options, run configure, make and make install (you may have to run "autogen.sh" first):

    ./configure
    make
    make install

The configure and make steps can be run as a non-root user and you can run Wireshark from the compilation directory itself. You must run make install as root in order to copy the program to the proper directories.

3. Berkeley Packet Filter (BPF) requirement
--------------------------------------------
In order to capture packets (with Wireshark/TShark, tcpdump, or any other packet capture program) on a BSD system, your kernel must have the Berkeley Packet Filter mechanism enabled. The default kernel configurations in recent versions of BSD systems have this enabled already. To verify the bpf device is present, look in the /dev directory:

    ls -l /dev/bpf*

You should see one or more bpf devices listed similar to this:

    crw------- 1 root wheel 0, 90 Aug 10 21:05 /dev/bpf0
    crw------- 1 root wheel 0, 91 Aug 10 21:05 /dev/bpf1

Packet-capturing programs will pick the first bpf device that's not in use. Recent versions of most BSDs will create bpf devices as needed, so you don't have to configure the number of devices that will be available.

4. Running wireshark as a non-root user
-----------------------------------------
Since the bpf devices are read-only by the owner (root), you normally have to run packet capturing programs such as Wireshark as root. It is safer to run programs as a non-root user if possible. To run Wireshark as a non-root user, you must change the permissions on the bpf device(s). If you are the only user that needs to use Wireshark, the easiest way is to change the owner of each bpf device to your username. You can also
add the read/write ability to the group (typically wheel) and add users
that need to use Wireshark to the wheel group. Check your operating
system’s documentation on how to make permanent these changes as they
are often reset upon reboot; if /dev is implemented with devfs, it might
be possible to configure devfs to create all bpf devices owned by a
particular user and/or group and with particular permissions. In
FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules
file with content such as

```
[localrules=10]
add path "bpf*" {mode and permissions}
```

where "mode and permissions" can include clauses such as

```
mode {octal permissions}
```

to set the permissions on the device (e.g., "mode 0660" to set the
permissions to rw-rw-r--),

```
user {user}
```

to set the user who owns the device, or

```
group {group}
```

to set the group that owns the device and adding a line such as

```
devfs_system_ruleset=localrules
```

to /etc/rc.conf. For example, an /etc/devfs.rules file with

```
[localrules=10]
add path "bpf*" mode 0660 group wheel
```

will grant read and write permissions on all BPF devices to all users in
the "wheel" group.

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#!/usr/bin/env python
# Copyright (c) 2013 The Chromium Authors. All rights reserved.
#
# SPDX-License-Identifier: BSD-3-Clause
#
"""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.

Open Source Used In XE-SDK 17.3 17.3-3.2.2 1415


Examples:
python checklicenses.py
python checklicenses.py --root ~/chromium/src third_party"
"
WHITELISTED_LICENSES = [
    'BSD',
    'BSD (2 clause)',
    'BSD (2 clause) GPL (v2 or later)',
    'BSD (3 clause)',
    'GPL (v2 or later)',
    'GPL (v3 or later) (with Bison parser exception)',
    'ISC',
    'ISC GPL (v2 or later)',
    'LGPL (v2 or later)',
    'LGPL (v2.1 or later)',
    'MIT/X11 (BSD like)',
    'Public domain',
    'Public domain GPL (v2 or later)',
    'Public domain MIT/X11 (BSD like)',
    'zlib/libpng',
    'zlib/libpng GPL (v2 or later)',
]

PATH_SPECIFIC_WHITELISTED_LICENSES = {
    'caputils/airpcap.h': [
        'BSD-3-Clause',
    ],
    'wsutil/strnatcmp.c': [
        'Zlib',
    ],
    'wsutil/strnatcmp.h': [
        'Zlib',
    ],
    'dtds': [
        'UNKNOWN',
    ],
    'diameter/dictionary.dtd': [
        'UNKNOWN',
    ],
    'wimaxasncp/dictionary.dtd': [
        'UNKNOWN',
    ],
    'doc': [
        'UNKNOWN',
    ],
    'docbook/custom_layer_chm.xsl': [

'UNKNOWN',
],
docbook/custom_layer_single_html.xsl': [
    'UNKNOWN',
],
docbook/ws.css': [
    'UNKNOWN',
],
'fix': [
    'UNKNOWN',
],
'swsutil/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.c': [
    '# Using ISC license only
    'ISC GPL (v2)'# Using ISC license only
],
'epan/dissectors/packet-ppi.c': [
    '# Using BSD (3 clause) license
    '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', ],
'epan/dissectors/pidl/idl/dissectors/pidl/mapi/request.cnf.c': [ 'UNKNOWN', ],
'epan/dissectors/pidl/idl/dissectors/pidl/mapi/response.cnf.c': [ 'UNKNOWN', ],

# The following tools are under incompatible licenses (mostly GPLv3 or
# GPLv3+), but this is OK since they are not actually linked into Wireshark
'tools/pidl': [ 'UNKNOWN', ],
'tools/lemon': [ 'UNKNOWN', ],
'tools/licensecheck.pl': [ 'GPL (v2)' ],

# Generated files for GTK pixbuf binary bundling
'ui/gtk/wireshark-gresources.h': [ 'UNKNOWN', ],
'ui/gtk/wireshark-gresources.c': [ 'UNKNOWN', ],

# The airpcap code is using BSD (3 clause)
'epan/crypt/dot11decrypt_interop.h': [ 'BSD (3 clause) GPL (v2)' ],
'epan/crypt/dot11decrypt_tkip.c': [ 'BSD (3 clause) GPL (v2)' ],
'epan/crypt/dot11decrypt_ws.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
break
if found_path_specific:
    continue

reason = "'\%s' has non-whitelisted license '\%s'" % (filename, license)
success = False
print(reason)
exit_status = 1

if success:
    print("\nSUCCESS\n")
    return 0
else:
    print("\nFAILED\n")
    return exit_status

def main():
    default_root = os.path.abspath(os.path.join(os.path.dirname(__file__), '..', '..'))
    option_parser = optparse.OptionParser()
    option_parser.add_option('--root', default=default_root,
        dest='base_directory',
        help='Specifies the repository root. This defaults to "/.." relative to the script file, which 
        will normally be the repository root."
    option_parser.add_option('-v', '--verbose', action='store_true',
        default=False, help='Print debug logging')
    option_parser.add_option('--ignore-suppressions',
        action='store_true',
        default=False,
        help='Ignore path-specific license whitelist.')
    options, args = option_parser.parse_args()
    return check_licenses(options, args)

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

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Mersenne Twister
---------------

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the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.
Before using, initialize the state by using init_genrand(seed)
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The `mod: socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE

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Execution tracing

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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

XML Remote Procedure Calls
-------------------------------

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--------

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

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

strtod and dtoa
---------------

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cfuhash

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The :mod:`_decimal` Module is built using an included copy of the libmpdec library unless the build is configured `--with-system-libmpdec`:

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define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246:                                           ; preds = %CF246, %BB
%Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248:                                           ; preds = %CF248, %CF246
store i8 %Sl163, i8* %0
br label %CF248
}
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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s ; D31946
; Check that we don't end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}; CHECK-LABEL: TestSelect:
; CHECK movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
; CHECK-LABEL: TestFabs:
; CHECK    andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK    andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000008000000000000000, %mul
  ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK    movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}

add_llvm_library() {
  LINK_LIBS
    llvmCore
    llvmHost
    llvmSymbol
  LINK_COMPONENTS
    Support
)
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; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:
    ; First, extend each i32 to i64
    ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
    ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

    ; Next, convert each to double.
    ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
    ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
    ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
    ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
    ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
    ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
    ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
    ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

    ; CHECK: ret
    %flt = sitofp <16 x i32> %in to <16 x double>
    %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
    ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {

; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

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==============================================================================
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

#define hidden fastcc void @fred() unnamed_addr #0 {
entry:
br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry
  br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [%cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [ i32 1, label %sw.bb.i i32 2, label %sw.bb3.i ]

sw.bb.i: ; preds = %while.body
  unreachable

sw.bb3.i: ; preds = %while.body
  unreachable

exit: ; preds = %while.body
  switch i32 undef, label %exit.2 [ i32 1, label %sw.bb.i17

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1.118 smartmontools 6.5 r0

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5:ff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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1.125 libxcrypt 4.1.1 r0

1.126 python3-pyserial 3.4 r0

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1.127 curl 7.66.0 r0

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## libidn

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## OpenLDAP

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

## libssh2

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

1.128 qemu 3.0.0 r0

1.128.1 Available under license :

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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 @@
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
-        x86emu_dump_regs();
+        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+            x86emu_dump_xregs();
+        } else {
+            x86emu_dump_regs();
+        }

    }
    if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
        printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
for (i=0; i< M.x86.enc_pos; i++) {
        sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
    }
-    printk("%-20s",buf1);
+    printk("%-20s ",buf1);
}
static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
    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\n");
+   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;
}
+/* 0xcb */ x86emuOp2_bswap,
+/* 0xcc */ x86emuOp2_bswap,
+/* 0xcd */ x86emuOp2_bswap,
+/* 0xce */ x86emuOp2_bswap,
+/* 0xcf */ x86emuOp2_bswap,
+/* 0xd0 */ x86emuOp2_illegal_op,
+/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops.c	20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
    push_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 @@
    if (cond) {
+        /* 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_IP = target;
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+ + M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2526,6 +2534,8 @@
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
while (count--) {
@@ -2574,6 +2586,8 @@
}
M.x86.R_SI += inc;
M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2598,16 +2612,21 @@
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
cmp_byte(val1, val2);
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
        TRACE_AND_STEP();
        if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
- - /* move them until CX is ZERO. */
- - while (M.x86.R_CX != 0) {
- + /* move them until (E)CX is ZERO. */
- + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
- val1 = fetch_data_long(M.x86.R_SI);
- val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
-@@ -2655,11 +2674,16 @@
- val2 = fetch_data_word_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 {
@@ -2741,11 +2765,16 @@
        TRACE_AND_STEP();
        if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+    break;
}  
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -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;
    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--) {
@@ -2795,6 +2826,8 @@
    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();
@@ -2817,11 +2850,16 @@
    inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+ /* 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);
M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
M.x86.R_SI += inc;
+            if (M.x86.intr & INTR_HALTED)
+                break;
} } 
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2859,9 +2897,11 @@
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--) {
@@ -2871,6 +2911,8 @@
       M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
M.x86.R_SI += inc;
+        if (M.x86.intr & INTR_HALTED)
+            break;
} }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2894,26 +2936,36 @@
       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;
+    }
} 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);
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
+        M.x86.R_DI += inc;
+        if (ACCESS_FLAG(F_ZF))
+            break;          /* zero flag set means equal */
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
} else {
@@ -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);
            } else
                M.x86.R_CX -= 1;
+                M.x86.R_ECX -= 1;
+            else
                M.x86.R_CX -= 1;
+                M.x86.R_DI += inc;
+                if (ACCESS_FLAG(F_ZF))
+                    break;          /* zero flag set means equal */
+                if (M.x86.intr & INTR_HALTED)
+                    break;
    } else {
@@ -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.intr & INTR_HALTED)
                break;
if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_long(M.x86.R_EAX, val);
@@ -2977,10 +3034,15 @@
    val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word(M.x86.R_AX, (u16)val);
            } else 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 {
@@ -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);
TRACEx_\&_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("RETn");
-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");
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("RETFn");
-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;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+ }
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
TRACE_AND_STEP();
M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:", cs);
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
    break;
    case 4: /* jmp word ptr ... */
        destval = fetch_data_word(destoffset);
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
        TRACE_AND_STEP();
        M.x86.R_IP = destval;
    break;
    case 5: /* jmp far ptr ... */
        destval = fetch_data_word(destoffset);
        destval2 = fetch_data_word(destoffset + 2);
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
        TRACE_AND_STEP();
        M.x86.R_IP = destval;
M.x86.R_CS = destval2;
Index: prim_ops.c

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c	7 Sep 2007 10:01:21 -00001.1
+++ prim_ops.c16 Jan 2008 14:18:15 -00001.3
@@ -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. */
+ u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
    M.x86.R_ECX : M.x86.R_CX);
    while (count--) {
      single_in(size);
      M.x86.R_DI += inc;
    }
 M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
  }
 M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* out until CX is ZERO. */
    - u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    /* out until (E)CX is ZERO. */
+    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);
    while (count--)
    {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
void X86EMU_setMemBase(void *base, size_t size)
{
    M.mem_base = (int) base;
    +M.mem_base = (unsigned long) base;
    M.mem_size = size;
}
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/debug.h	20 Mar 2008 15:25:27 -0000	1.4
@@ -40,8 +40,6 @@
 0
 
 /*---------------------- Macros and type definitions ----------------------*/
@@ -78,6 +76,8 @@
#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
@@ -96,6 +96,8 @@
#define DEBUG_SYSINT() 0
#define DEBUG_TRACECALL() 0
#define DEBUG_TRACECALLREGS() 0
+define DEBUG_TRACEJMP() 0
+define DEBUG_TRACEJMPREGS() 0
#define DEBUG_SYS() 0
#define DEBUG_MEM_TRACE() 0
#define DEBUG_IO_TRACE() 0
@@ -169,14 +171,20 @@
x86emu_dump_regs();
if (DEBUG_TRACECALL())
  printf("\%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())
  printf("\%04x: \%04x: RET \%s \%04x:\%04x\n",u,v,s,w,x);
+# define JMP_TRACE(u,v,w,x,s)

#include/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)
@@ -96,6 +96,8 @@
#define DEBUG_SYSINT() 0
#define DEBUG_TRACECALL() 0
#define DEBUG_TRACECALLREGS() 0
+define DEBUG_TRACEJMP() 0
+define DEBUG_TRACEJMPREGS() 0
#define DEBUG_SYS() 0
#define DEBUG_MEM_TRACE() 0
#define DEBUG_IO_TRACE() 0
@@ -169,14 +171,20 @@
x86emu_dump_regs();
if (DEBUG_TRACECALL())
  printf("\%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())
  printf("\%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
", u, v, s, w, x);
#else
#define CALL_TRACE(u,v,w,x,s)
#define RETURN_TRACE(n,u,v)
#define JMP_TRACE(u,v,w,x,s)
#endif
#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/regs.h	15 Jan 2008 13:46:40 -0000	1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA 0x00000200
#define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#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_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;
#undef DEBUG
-int     check;
```c
+    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.h7 Sep 2007 10:01:21 -00001.1
+++ include/x86emu/x86emu.h19 Oct 2007 08:42:15 -00001.3
@@ -47,6 +47,7 @@
 #include <console.h>
 #define printk(x...) printk(BIOS_DEBUG, x)
#else
+    #include <stdio.h>
 #define printk printf
#endif
@@ -189,6 +181,8 @@
 #define DEBUG_TRACECALL_REGS_F  0x004000
 #define DEBUG_DECODE_NOPRINT_F  0x008000
 #define DEBUG_SAVE_IP_CS_F      0x010000
+    #define DEBUG_TRACEJMP_F        0x020000
+    #define DEBUG_TRACEJMP_REGS_F   0x040000
 #define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
 #ifdef  __cplusplus
 }                       /* End of "C" linkage for C++   */
#endif
-    #endif /*__X86EMU_X86EMU_H */
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ifndef TOP
  TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
endif
export TOP
include $(TOP)/make.rules

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

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

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

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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 */

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#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */

#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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   *
   * @(#)mman.h 8.1 (Berkeley) 6/2/93 */

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7
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=======

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/*  *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 TARGETEFAULT            14              /* Bad address */
#define TARGET_ENOTBLK          15              /* Block device required */
#define TARGET_EBUSY            16              /* Device busy */
#define TARGET_EXEXIST          17              /* File exists */
#define TARGET_EXDEV            18              /* Cross-device link */
#define TARGET_ENODEV           19              /* Operation not supported by device */
#define TARGET_ENOTDIR          20              /* Not a directory */
#define TARGET_EISDIR           21              /* Is a directory */
#define TARGET_EINVAL           22              /* Invalid argument */
#define TARGET_ENFILE           23              /* Too many open files in system */
#define TARGET_EMFILE           24              /* Too many open files */
#define TARGET_ENOTTY           25              /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY          26              /* Text file busy */
#define TARGET_EFBIG 27 /* File too large */
#define TARGET_ENOSPC 28 /* No space left on device */
#define TARGET_ESPIPE 29 /* Illegal seek */
#define TARGET_EROFS 30 /* Read-only file system */
#define TARGET_EMLINK 31 /* Too many links */
#define TARGET_EPIPE 32 /* Broken pipe */

/* math software */
#define TARGET_EDOM 33 /* Numerical argument out of domain */
#define TARGET_ERANGE 34 /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET_EINPROGRESS 36 /* Operation now in progress */
#define TARGET_EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39 /* Destination address required */
#define TARGET_EMGSIZE 40 /* Message too long */
#define TARGET_EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48 /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
#define TARGET_ENOBUFS 55 /* No buffer space available */
#define TARGET_EISCONN 56 /* Socket is already connected */
#define TARGET_NOTCONN 57 /* Socket is not connected */
#define TARGET_ESHUTDOWN 58 /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59 /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60 /* Operation timed out */
#define TARGET_ECONNREFUSED 61 /* Connection refused */

#define TARGET_ELOOP 62 /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63 /* File name too long */
/* should be rearranged */
#define TARGET_EHOSTDOWN 64 /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66 /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67 /* Too many processes */
#define TARGET_EUSERS 68 /* Too many users */
#define TARGET_EDQUOT 69 /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70 /* Stale NFS file handle */
#define TARGET_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_ENEE DATAUTH 81 /* Need authenticator */
#define TARGET_EIPSEC 82 /* IPsec processing failure */
#define TARGET_ENOATTR 83 /* Attribute not found */
#define TARGET_EOLSEQ 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_ECAN CANCELED 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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/*
 System call numbers.
 */

/*
 created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
 */

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NR_unmount 22
#define TARGET_OPENBSD_NR_setuid 23
#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35
#define TARGET_OPENBSD_NR_sync 36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_profil 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin 50
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_sigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 62
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_sstck 70
#define TARGET_OPENBSD_NR_munmap 73
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#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrecv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
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#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_fstat 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_shmct1 296
#define TARGET_OPENBSD_NR_msget 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
/* 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) */

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*/
* 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_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
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David Gibson <david@gibson.dropbear.id.au>
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{ TARGET_FREEBSD_NR___acl_aclcheck_file, "_acl_aclcheck_file", "%s(""%s"", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "_acl_aclcheck_link", "%s(""%s"", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_fd, "_acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "_acl_delete_file", "%s(""%s"", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "_acl_delete_link", "%s(""%s"", %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s("%s", %"#o", %"#x"), NULL, NULL },
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[TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL ],
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{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },

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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
#define TARGET_NETBSD_NR_chown 16
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#define TARGET_NETBSD_NR_compat_43_olseek 19
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_getpid 20
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#define TARGET_NETBSD_NR_unmount 22
#define TARGET_NETBSD_NR_setuid 23
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#define TARGET_NETBSD_NR_sendmsg 28
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#define TARGET_NETBSD_NR_profil 44
#define TARGET_NETBSD_NR_ktrace 45
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```
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History
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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

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#!/bin/bash
#set -x
#set -e

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check wether svn, patch, ... is available...

if [ ! -x $SVN ]; then
echo "subversion executable not found!"
exit -1
fi

if [ ! -x $PATCH ]; then
echo "patch executable not found!"
exit -1
fi

if [ ! -r $DIFF_FILE ]; then
echo "diff file $DIFF_FILE not found!"
exit -1
fi

# download the x86emu sources from LinuxBIOS subversion
#revision known to work...
REV=496

echo "Checking out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."

mkdir -p include/x86emu

cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion director..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"

exit 0

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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-snkiinclude -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) *.o *.i *.s libx86emu.a

distclean:

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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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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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1.132 mailx 12.5-5 r0

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

 HMAC: Keyed-Hashing for Message Authentication

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

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*/

#include "makeint.h"
#include "os.h"
#include "filedef.h"
#include "dep.h"
#include "variable.h"
#include "job.h"
#include "commands.h"
#include "rule.h"
#include "debug.h"
#include "getopt.h"

#include <assert.h>
#ifdef _AMIGA
#include <dos/dos.h>
#else
#include <proto/dos.h>
#endif
#ifdef WINDOWS32
    # include <windows.h>
    # include <io.h>
    # include "pathstuff.h"
    # include "sub_proc.h"
    # include "w32err.h"
#endif

#ifdef __EMX__
    # include <sys/types.h>
    # include <sys/wait.h>
#endif

#ifdef HAVE_FCNTL_H
    # include <fcntl.h>
#endif

#ifdef _AMIGA
    int __stack = 20000; /* Make sure we have 20K of stack space */
#endif

#ifdef VMS
    int vms_use_mcr_command = 0;
    int vms_always_use_cmd_file = 0;
    int vms_gnv_shell = 0;
    int vms_legacy_behavior = 0;
    int vms_comma_separator = 0;
    int vms_unix_simulation = 0;
    int vms_report_unix_paths = 0;

    /* Evaluates if a VMS environment option is set, only look at first character */
    static int
    get_vms_env_flag (const char *name, int default_value)
    {
        char * value;
        char x;

        value = getenv (name);
        if (value == NULL)
            return default_value;

        x = toupper (value[0]);
        switch (x)
        {
            case '1':
            case 'T':
            case 'E':
                return 1;
                break;
            case '0':
            case 'F':
                break;
            default:
                return default_value;
        }
    }
#endif
case 'D':
    return 0;
}
}
#endif

#if defined HAVE_WAITPID || defined HAVE_WAIT3
#define HAVE_WAIT_NOHANG
#endif

#ifndef HAVE_UNISTD_H
int chdir ();
#endif
#ifndef STDC_HEADERS
#ifndef sun                    /* Sun has an incorrect decl in a header. */
void exit (int) __attribute__ ((noreturn));
#endif
double atof ();
#endif

static void clean_jobserver (int status);
static void print_data_base (void);
static void print_version (void);
static void decode_switches (int argc, const char **argv, int env);
static void decode_env_switches (const char *envar, unsigned int len);
static struct variable *define_makeflags (int all, int makefile);
static char *quote_for_env (char *out, const char *in);
static void initialize_global_hash_tables (void);

/* The structure that describes an accepted command switch. */

struct command_switch
{
    int c;                     /* The switch character. */

enum                      /* Type of the value. */
{  
    flag,  /* Turn int flag on. */  
    flag_off,  /* Turn int flag off. */  
    string,  /* One string per invocation. */  
    strlist,  /* One string per switch. */  
    filename,  /* A string containing a file name. */  
    positive_int,  /* A positive integer. */  
    floating,  /* A floating-point number (double). */  
    ignore  /* Ignored. */  
} type;
void *value_ptr; /* Pointer to the value-holding variable. */

unsigned int env:1; /* Can come from MAKEFLAGS. */
unsigned int toenv:1; /* Should be put in MAKEFLAGS. */
unsigned int no_makefile:1; /* Don't propagate when remaking makefiles. */

const void *noarg_value; /* Pointer to value used if no arg given. */
const void *default_value; /* Pointer to default value. */

const char *long_name; /* Long option name. */
};

/* True if C is a switch value that corresponds to a short option. */
#define short_option(c) ((c) <= CHAR_MAX)

/* The structure used to hold the list of strings given 
in command switches of a type that takes strlist arguments. */

struct stringlist
{
    const char **list; /* Nil-terminated list of strings. */
    unsigned int idx; /* Index into above. */
    unsigned int max; /* Number of pointers allocated. */
};

/* The recognized command switches. */

/* Nonzero means do extra verification (that may slow things down). */

int verify_flag;

/* Nonzero means do not print commands to be executed (-s). */

int silent_flag;

/* Nonzero means just touch the files 
that would appear to need remaking (-t) */

int touch_flag;

/* Nonzero means just print what commands would need to be executed, 
don't actually execute them (-n). */

int just_print_flag;

/* Print debugging info (--debug). */
static struct stringlist *db_flags = 0;
static int debug_flag = 0;

int db_level = 0;

/* Synchronize output (--output-sync). */
char *output_sync_option = 0;

#ifdef WINDOWS32
/* Suspend make in main for a short time to allow debugger to attach */
int suspend_flag = 0;
#endif

/* Environment variables override makefile definitions. */
int env_overrides = 0;

/* Nonzero means ignore status codes returned by commands executed to remake files. Just treat them all as successful (-i). */
int ignore_errors_flag = 0;

/* Nonzero means don't remake anything, just print the data base that results from reading the makefile (-p). */
int print_data_base_flag = 0;

/* Nonzero means don't remake anything; just return a nonzero status if the specified targets are not up to date (-q). */
int question_flag = 0;

/* Nonzero means do not use any of the builtin rules (-r) / variables (-R). */
int no_builtin_rules_flag = 0;
int no_builtin_variables_flag = 0;

/* Nonzero means keep going even if remaking some file fails (-k). */
int keep_going_flag;
int default_keep_going_flag = 0;

/* Nonzero means check symlink mtimes. */
int check_symlink_flag = 0;
/ * Nonzero means print directory before starting and when done (-w). */

int print_directory_flag = 0;

/* Nonzero means ignore print_directory_flag and never print the directory. This is necessary because print_directory_flag is set implicitly. */

int inhibit_print_directory_flag = 0;

/* Nonzero means print version information. */

int print_version_flag = 0;

/* List of makefiles given with -f switches. */

static struct stringlist *makefiles = 0;

/* Size of the stack when we started. */

#ifdef SET_STACK_SIZE
struct rlimit stack_limit;
#endif

/* Number of job slots for parallelism. */

unsigned int job_slots;

#define INVALID_JOB_SLOTS (-1)
static unsigned int master_job_slots = 0;
static int arg_job_slots = INVALID_JOB_SLOTS;
static const int default_job_slots = INVALID_JOB_SLOTS;

/* Value of job_slots that means no limit. */

static const int inf_jobs = 0;

/* Authorization for the jobserver. */

static char *jobserver_auth = NULL;

/* Handle for the mutex used on Windows to synchronize output of our children under -O. */

char *sync_mutex = NULL;
/* Maximum load average at which multiple jobs will be run. 
   Negative values mean unlimited, while zero means limit to 
   zero load (which could be useful to start infinite jobs remotely 
   but one at a time locally). */
#endif
#define max_load_average = -1.0;
double default_load_average = -1.0;
#else
int max_load_average = -1;
#include <stdio.h>
int default_load_average = -1;
#endif

/* List of directories given with -C switches. */
static struct stringlist *directories = 0;

/* List of include directories given with -I switches. */
static struct stringlist *include_directories = 0;

/* List of files given with -o switches. */
static struct stringlist *old_files = 0;

/* List of files given with -W switches. */
static struct stringlist *new_files = 0;

/* List of strings to be eval'd. */
static struct stringlist *eval_strings = 0;

/* If nonzero, we should just print usage and exit. */
static int print_usage_flag = 0;

/* If nonzero, we should print a warning message 
   for each reference to an undefined variable. */
int warn_undefined_variables_flag;

/* If nonzero, always build all targets, regardless of whether 
   they appear out of date or not. */
static int always_make_set = 0;
#include <stdio.h>
int always_make_flag = 0;

/* If nonzero, we're in the "try to rebuild makefiles" phase. */
int rebuilding_makefiles = 0;

/* Remember the original value of the SHELL variable, from the environment. */

struct variable shell_var;

/* This character introduces a command: it's the first char on the line. */

char cmd_prefix = 't';

/* The usage output. We write it this way to make life easier for the translators, especially those trying to translate to right-to-left languages like Hebrew. */

static const char *const usage[] =
{
    N_("Options:
"),
    N_("\n"),
    -b, -m Ignored for compatibility\n"),
    N_("\n"),
    -B, --always-make Unconditionally make all targets\n"),
    N_("\n"),
    -C DIRECTORY, --directory=DIRECTORY\n Change to DIRECTORY before doing anything\n"),
    N_("\n"),
    -d Print lots of debugging information\n"),
    N_("\n"),
    --debug=[FLAGS] Print various types of debugging information\n"),
    N_("\n"),
    -e, --environment-overrides Environment variables override makefiles\n"),
    N_("\n"),
    --eval=STRING Evaluate STRING as a makefile statement\n"),
    N_("\n"),
    -f FILE, --file=FILE, --makefile=FILE\n Read FILE as a makefile\n"),
    N_("\n"),
    -h, --help Print this message and exit\n"),
    N_("\n"),
    -i, --ignore-errors Ignore errors from recipes\n"),
    N_("\n"),
    -I DIRECTORY, --include-dir=DIRECTORY\n Search DIRECTORY for included makefiles\n"),
    N_("\n"),
    -j [N], --jobs=[N] Allow N jobs at once; infinite jobs with no arg\n"),
    N_("\n"),
    -k, --keep-going Keep going when some targets can't be made\n"),
-l [N], --load-average=[N], --max-load=[N]
   Don't start multiple jobs unless load is below N.

-L, --check-symlink-times
   Use the latest mtime between symlinks and target.

-n, --just-print, --dry-run, --recon
   Don't actually run any recipe; just print them.

-o FILE, --old-file=FILE, --assume-old=FILE
   Consider FILE to be very old and don't remake it.

-O[TYPE], --output-sync=[TYPE]
   Synchronize output of parallel jobs by TYPE.

-p, --print-data-base
   Print make's internal database.

-q, --question
   Run no recipe; exit status says if up to date.

-r, --no-builtin-rules
   Disable the built-in implicit rules.

-R, --no-builtin-variables
   Disable the built-in variable settings.

-s, --silent, --quiet
   Don't echo recipes.

-S, --no-keep-going, --stop
   Turns off -k.

-t, --touch
   Touch targets instead of remaking them.

--trace
   Print tracing information.

-v, --version
   Print the version number of make and exit.

-w, --print-directory
   Print the current directory.

--no-print-directory
   Turn off -w, even if it was turned on implicitly.

-W FILE, --what-if=FILE, --new-file=FILE, --assume-new=FILE
   Consider FILE to be infinitely new.

--warn-undefined-variables
   Warn when an undefined variable is referenced.

NULL
}:

/* The table of command switches.
Order matters here; this is the order MAKEFLAGS will be constructed.
So be sure all simple flags (single char, no argument) come first. */
static const struct command_switch switches[] =
{
    { 'b', ignore, 0, 0, 0, 0, 0, 0, 0 },
    { 'B', flag, &always_make_set, 1, 1, 0, 0, 0, "always-make" },
    { 'd', flag, &debug_flag, 1, 1, 0, 0, 0 },
#ifdef WINDOWS32
    { 'D', flag, &suspend_flag, 1, 1, 0, 0, 0, "suspend-for-debug" },
#endif
    { 'e', flag, &env_overrides, 1, 1, 0, 0, 0, "environment-overrides" },
    { 'h', flag, &print_usage_flag, 0, 0, 0, 0, 0, "help" },
    { 'i', flag, &ignore_errors_flag, 1, 1, 0, 0, 0, "ignore-errors" },
    { 'k', flag, &keep_going_flag, 1, 1, 0, 0, &default_keep_going_flag,
        "keep-going" },
    { 'L', flag, &check_symlink_flag, 1, 1, 0, 0, 0, "check-symlink-times" },
    { 'm', ignore, 0, 0, 0, 0, 0, 0, 0 },
    { 'n', flag, &just_print_flag, 1, 1, 0, 0, 0, "just-print" },
    { 'p', flag, &print_data_base_flag, 1, 1, 0, 0, 0, "print-data-base" },
    { 'q', flag, &question_flag, 1, 1, 0, 0, 0, "question" },
    { 'r', flag, &no_builtin_rules_flag, 1, 1, 0, 0, 0, "no-builtin-rules" },
    { 'R', flag, &no_builtin_variables_flag, 1, 1, 0, 0, 0,
        "no-builtin-variables" },
    { 's', flag, &silent_flag, 1, 1, 0, 0, 0, "silent" },
    { 'S', flag_off, &keep_going_flag, 1, 1, 0, 0, &default_keep_going_flag,
        "no-keep-going" },
    { 't', flag, &touch_flag, 1, 1, 0, 0, 0, "touch" },
    { 'v', flag, &print_version_flag, 1, 1, 0, 0, 0, "version" },
    { 'w', flag, &print_directory_flag, 1, 1, 0, 0, 0, "print-directory" },
/* These options take arguments. */
    { 'C', filename, &directories, 0, 0, 0, 0, 0, "directory" },
    { 'f', filename, &makefiles, 0, 0, 0, 0, 0, "file" },
    { 'I', filename, &include_directories, 1, 1, 0, 0, 0, "include-dir" },
    { 'j', positive_int, &arg_job_slots, 1, 1, 0, 0, &inf_jobs, &default_job_slots,
        "jobs" },
#ifndef NO_FLOAT
    { 'l', floating, &max_load_average, 1, 1, 0, &default_load_average,
        &default_load_average, "load-average" },
#else
    { 'l', positive_int, &max_load_average, 1, 1, 0, &default_load_average,
        &default_load_average, "load-average" },
#endif
    { 'o', filename, &old_files, 0, 0, 0, 0, 0, "old-file" },
    { 'O', string, &output_sync_option, 1, 1, 0, target, 0, "output-sync" },
    { 'W', filename, &new_files, 0, 0, 0, 0, 0, "what-if" },
/* These are long-style options. */
static struct option long_option_aliases[] =
{
    { "quiet", no_argument, 0, 's' },
    { "stop", no_argument, 0, 'S' },
    { "new-file", required_argument, 0, 'W' },
    { "assume-new", required_argument, 0, 'W' },
    { "assume-old", required_argument, 0, 'o' },
    { "max-load", optional_argument, 0, 'l' },
    { "dry-run", no_argument, 0, 'n' },
    { "recon", no_argument, 0, 'n' },
    { "makefile", required_argument, 0, 'f' },
};

/* List of goal targets. */

static struct goaldep *goals, *lastgoal;

/* List of variables which were defined on the command line 
(or, equivalently, in MAKEFLAGS). */

struct command_variable
{
    struct command_variable *next;
    struct variable *variable;
};
static struct command_variable *command_variables;

/* The name we were invoked with. */

#ifdef WINDOWS32
    /* On MS-Windows, we chop off the .exe suffix in 'main', so this 
    cannot be 'const'. */
    char *program;
#else
const char *program;
#endif

/* Our current directory before processing any -C options. */
char *directory_before_chdir;

/* Our current directory after processing all -C options. */
char *starting_directory;

/* Value of the MAKELEVEL variable at startup (or 0). */
unsigned int makelevel;

/* Pointer to the value of the .DEFAULT_GOAL special variable.
   The value will be the name of the goal to remake if the command line
   does not override it. It can be set by the makefile, or else it's
   the first target defined in the makefile whose name does not start
   with ".". */
struct variable * default_goal_var;

/* Pointer to structure for the file .DEFAULT
   whose commands are used for any file that has none of its own.
   This is zero if the makefiles do not define .DEFAULT. */
struct file *default_file;

/* Nonzero if we have seen the magic `.POSIX' target.
   This turns on pedantic compliance with POSIX.2. */
int posix_pedantic;

/* Nonzero if we have seen the `.SECONDEXPANSION' target.
   This turns on secondary expansion of prerequisites. */
int second_expansion;

/* Nonzero if we have seen the `.ONESHELL' target.
   This causes the entire recipe to be handed to SHELL
   as a single string, potentially containing newlines. */
int one_shell;

/* One of OUTPUT_SYNC_* if the "--output-sync" option was given. This
   attempts to synchronize the output of parallel jobs such that the results
   of each job stay together. */
int output_sync = OUTPUT_SYNC_NONE;

/* Nonzero if the "--trace" option was given. */
int trace_flag = 0;

/* Nonzero if we have seen the '.NOTPARALLEL' target.
   This turns off parallel builds for this invocation of make. */
int not_parallel;

/* Nonzero if some rule detected clock skew; we keep track so (a) we only
   print one warning about it during the run, and (b) we can print a final
   warning at the end of the run. */
int clock_skew_detected;

/* Map of possible stop characters for searching strings. */
#ifndef UCHAR_MAX
#define UCHAR_MAX 255
#endif
unsigned short stopchar_map[UCHAR_MAX + 1] = {0};

/* If output-sync is enabled we'll collect all the output generated due to
   options, while reading makefiles, etc. */
struct output make_sync;

/* Mask of signals that are being caught with fatal_error_signal. */
#ifdef POSIX
   sigset_t fatal_signal_set;
#else
   #ifdef HAVE_SIGSETMASK
      int fatal_signal_mask;
   #endif
#endif

#ifdef !HAVE_DECL_BSD_SIGNAL && !defined bsd_signal
   #if !defined HAVE_SIGACTION
      # define bsd_signal signal
   # else
      typedef RETSIGTYPE (*bsd_signal_ret_t) (int);
      static bsd_signal_ret_t
      bsd_signal (int sig, bsd_signal_ret_t func)
struct sigaction act, oact;
act.sa_handler = func;
act.sa_flags = SA_RESTART;
sigemptyset (&act.sa_mask);
sigaddset (&act.sa_mask, sig);
if (sigaction (sig, &act, &oact) != 0)
    return SIG_ERR;
return oact.sa_handler;
}
#endif
#endif

static void
initialize_global_hash_tables (void)
{
    init_hash_global_variable_set ();
    strcache_init ();
    init_hash_files ();
    hash_init_directories ();
    hash_init_function_table ();
}

/* This character map locate stop chars when parsing GNU makefiles.
   Each element is true if we should stop parsing on that character. */

static void
initialize_stopchar_map (void)
{
    int i;

    stopchar_map[(int)\'0\'] = MAP_NUL;
    stopchar_map[(int)\'#\'] = MAP_COMMENT;
    stopchar_map[(int)\'\'\'] = MAP_SEMI;
    stopchar_map[(int)\'=\'] = MAP_EQUALS;
    stopchar_map[(int)\':\'] = MAP_COLON;
    stopchar_map[(int)\'%\'] = MAP_PERCENT;
    stopchar_map[(int)\'|\'] = MAP_PIPE;
    stopchar_map[(int)\'.\'] = MAP_DOT | MAP_USERFUNC;
    stopchar_map[(int)\',\'] = MAP_COMMA;
    stopchar_map[(int)\'$\'] = MAP_VARIABLE;
    stopchar_map[(int)\'-\'] = MAP_USERFUNC;
    stopchar_map[(int)\'_\'] = MAP_USERFUNC;
    stopchar_map[(int)\'\t\'] = MAP_BLANK;

stopchar_map[(int)'] = MAP_DIRSEP;
#if defined(VMS)
    stopchar_map[(int)':'] |= MAP_DIRSEP;
    stopchar_map[(int)'>'] |= MAP_DIRSEP;
#endif
#if defined(HAVE_DOS_PATHS)
    stopchar_map[(int)\'] |= MAP_DIRSEP;
#endif
for (i = 1; i <= UCHAR_MAX; ++i)
{
    if (isspace (i) && NONE_SET (stopchar_map[i], MAP_BLANK))
        /* Don't mark blank characters as newline characters. */
        stopchar_map[i] |= MAP_NEWLINE;
    else if (isalnum (i))
        stopchar_map[i] |= MAP_USERFUNC;
}

static const char *
expand_command_line_file (const char *name)
{
    const char *cp;
    char *expanded = 0;

    if (name[0] == '\0')
        O (fatal, NILF, _("empty string invalid as file name"));

    if (name[0] == '~')
    {
        expanded = tilde_expand (name);
        if (expanded && expanded[0] != '\0')
            name = expanded;
    }

    /* This is also done in parse_file_seq, so this is redundant
     * for names read from makefiles. It is here for names passed
     * on the command line. */
    while (name[0] == '.' && name[1] == '/')
    {
        name += 2;
        while (name[0] == '/')
        /* Skip following slashes: ".//foo" is "foo", not "/foo". */
            ++name;
    }

    if (name[0] == '\0')
    {
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/* Nothing else but one or more "./", maybe plus slashes! */
name = "./";
}

cp = strcache_add (name);

free (expanded);

return cp;
}

/*@ Toggle -d on receipt of SIGUSR1. */

#ifdef SIGUSR1
static RETSIGTYPE
debug_signal_handler (int sig UNUSED)
{
    db_level = db_level ? DB_NONE : DB_BASIC;
}
#endif

static void
decode_debug_flags (void)
{
    const char **pp;

    if (debug_flag)
        db_level = DB_ALL;

    if (db_flags)
        for (pp=db_flags->list; *pp; ++pp)
            
            const char *p = *pp;

            while (1)
            {
                switch (tolower (p[0]))
                {
                    case 'a':
                        db_level |= DB_ALL;
                        break;
                    case 'b':
                        db_level |= DB_BASIC;
                        break;
                    case 'i':
                        db_level |= DB_BASIC | DB_IMPLICIT;
                        break;
                    case 'j':
                        break;
                }
            }
        

#endif
db_level |= DB_JOBS;
break;
case 'm':
db_level |= DB_BASIC | DB_MAKEFILES;
break;
case 'n':
db_level = 0;
break;
case 'v':
db_level |= DB_BASIC | DB_VERBOSE;
break;
default:
    OS (fatal, NILF,
        _("unknown debug level specification '%s'"), p);
} 
while (*++p != '\0')
    if (*p == ',' || *p == ' ')
        ++p;
    break;
if (*p == '\0')
    break;
}

if (db_level)
    verify_flag = 1;
if (! db_level)
    debug_flag = 0;
}

static void
decode_output_sync_flags (void)
{
    #ifdef NO_OUTPUT_SYNC
    output_sync = OUTPUT_SYNC_NONE;
    #else
    if (output_sync_option)
    {
        if (streq (output_sync_option, "none"))
            output_sync = OUTPUT_SYNC_NONE;
        else if (streq (output_sync_option, "line"))
            output_sync = OUTPUT_SYNC_LINE;
        else if (streq (output_sync_option, "target"))
            output_sync = OUTPUT_SYNC_TARGET;
        else
            output_sync = OUTPUT_SYNC_NONE;
    }
    #endif
    }

Open Source Used In XE-SDK 17.3 17.3-3.2.2 1888
output_sync = OUTPUT_SYNC_TARGET;
else if (strcmp (output_sync_option, "recurse"))
    output_sync = OUTPUT_SYNC_RECURSE;
else
    OS (fatal, NILF,
        _("unknown output-sync type '%s'"), output_sync_option);
    
if (sync_mutex)
    RECORD_SYNC_MUTEX (sync_mutex);
#endif

#ifdef WINDOWS32
#ifdef NO_OUTPUT_SYNC

/* This is called from start_job_command when it detects that
   output_sync option is in effect. The handle to the synchronization
   mutex is passed, as a string, to sub-makes via the --sync-mutex
   command-line argument. */
void
prepare_mutex_handle_string (sync_handle_t handle)
{
  if (!sync_mutex)
  {
    /* Prepare the mutex handle string for our children. */
    /* 2 hex digits per byte + 2 characters for "0x" + null. */
    sync_mutex = xmalloc ((2 * sizeof (sync_handle_t)) + 2 + 1);
    sprintf (sync_mutex, "0x%Ix", handle);
    define_makeflags (1, 0);
  }
}
#endif /* NO_OUTPUT_SYNC */

/*
 * HANDLE runtime exceptions by avoiding a requestor on the GUI. Capture
 * exception and print it to stderr instead.
 *
 * If ! DB_VERBOSE, just print a simple message and exit.
 * If DB_VERBOSE, print a more verbose message.
 * If compiled for DEBUG, let exception pass through to GUI so that
 * debuggers can attach.
 */
LONG WINAPI
handle_runtime_exceptions (struct _EXCEPTION_POINTERS *exinfo)
{
PEXCEPTION_RECORD exrec = exinfo->ExceptionRecord;
LPSTR cmdline = GetCommandLine();
LPSTR prg = strtok (cmdline, " ");
CHAR errmsg[1024];
#ifdef USE_EVENT_LOG
HANDLE hEventSource;
LPTSTR lpszStrings[1];
#endif
#endif

if (! ISDB (DB_VERBOSE))
{
    sprintf (errmsg,
        _("%s: Interrupt/Exception caught (code = 0x%lx, addr = 0x%p)n"),
        prg, exrec->ExceptionCode, exrec->ExceptionAddress);
    fprintf (stderr, errmsg);
    exit (255);
}

sprintf (errmsg,
    _("Unhandled exception filter called from program %s
ExceptionCode = %lx
ExceptionFlags = %lx
ExceptionAddress = 0x%p"),
    prg, exrec->ExceptionCode, exrec->ExceptionFlags,
    exrec->ExceptionAddress);

if (exrec->ExceptionCode == EXCEPTION_ACCESS_VIOLATION
    && exrec->NumberParameters >= 2)
    sprintf (&errmsg[strlen(errmsg)],
        exrec->ExceptionInformation[0]
            ? _("Access violation: write operation at address 0x%p")
            : _("Access violation: read operation at address 0x%p")
        ),
        (PVOID)exrec->ExceptionInformation[1]);

/* turn this on if we want to put stuff in the event log too */
#ifdef USE_EVENT_LOG
hEventSource = RegisterEventSource (NULL, "GNU Make");
lpszStrings[0] = errmsg;

if (hEventSource != NULL)
{
    ReportEvent (hEventSource,
        EVENTLOG_ERROR_TYPE, 0, 0, NULL,
        1, 0, lpszStrings, NULL); /* handle of event source */
        /* event type */
        /* event category */
        /* event ID */
        /* current user's SID */
        /* strings in lpszStrings */
        /* no bytes of raw data */
        /* array of error strings */
        /* no raw data */
}
(VOID) DeregisterEventSource (hEventSource);
}
#endif

/* Write the error to stderr too */
fprintf (stderr, errmsg);

#ifdef DEBUG
return EXCEPTION_CONTINUE_SEARCH;
#else
exit (255);
return (255); /* not reached */
#endif
}

/*
 * On WIN32 systems we don't have the luxury of a /bin directory that
 * is mapped globally to every drive mounted to the system. Since make could
 * be invoked from any drive, and we don't want to propagate /bin/sh
 * to every single drive. Allow ourselves a chance to search for
 * a value for default shell here (if the default path does not exist).
 *
 */

int find_and_set_default_shell (const char *token)
{
    int sh_found = 0;
    char *atoken = 0;
    const char *search_token;
    const char *tokend;
    PATH_VAR(sh_path);
    extern const char *default_shell;

    if (!token)
        search_token = default_shell;
    else
        search_token = atoken = xstrdup (token);

    /* If the user explicitly requests the DOS cmd shell, obey that request.
     However, make sure that's what they really want by requiring the value
     of SHELL either equal, or have a final path element of, "cmd" or
     "cmd.exe" case-insensitive. */
    tokend = search_token + strlen (search_token) - 3;
    if (((tokend == search_token
         || (tokend > search_token
             && (tokend[-1] == '/' || tokend[-1] == '\'))
         && !strcasecmp (tokend, "cmd"))
         || (tokend > search_token
             && (tokend[-1] == '/' || tokend[-1] == '\'))
         && !strcasecmp (tokend, "cmd"))
|| ((tokend - 4 == search_token
  || (tokend - 4 > search_token
      && (tokend[-5] == '/' || tokend[-5] == '\'))
  && !strcasecmp (tokend - 4, "cmd.exe"))
{
  batch_mode_shell = 1;
  unixy_shell = 0;
  sprintf (sh_path, "%s", search_token);
  default_shell = xstrdup (w32ify (sh_path, 0));
  DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s\n"),
      default_shell));
  sh_found = 1;
}
else if (!no_default_sh_exe
        && (token == NULL || !strcmp (search_token, default_shell))
{
  /* no new information, path already set or known */
  sh_found = 1;
}
else if (_access (search_token, 0) == 0)
{
  /* search token path was found */
  sprintf (sh_path, "%s", search_token);
  default_shell = xstrdup (w32ify (sh_path, 0));
  DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s\n"),
      default_shell));
  sh_found = 1;
}
else
{
  char *p;
  struct variable *v = lookup_variable (STRING_SIZE_TUPLE ("PATH"));

  /* Search Path for shell */
  if (v && v->value)
  {
    char *ep;

    p = v->value;
    ep = strchr (p, PATH_SEPARATOR_CHAR);
    while (ep && *ep)
    {
      *ep = '\0';

      sprintf (sh_path, "%s\%s", p, search_token);
      if (_access (sh_path, 0) == 0)
    {
default_shell = xstrdup (w32ify (sh_path, 0));
sh_found = 1;
*ep = PATH_SEPARATOR_CHAR;

/* terminate loop */
p += strlen (p);
}
else
{
    *ep = PATH_SEPARATOR_CHAR;
p = ++ep;
}
ep = strchr (p, PATH_SEPARATOR_CHAR);
}

/* be sure to check last element of Path */
if (p && *p)
{
    sprintf (sh_path, "%s/%s", p, search_token);
    if (_access (sh_path, 0) == 0)
    {
        default_shell = xstrdup (w32ify (sh_path, 0));
        sh_found = 1;
    }
}

if (sh_found)
    DB (DB_VERBOSE,
        (_("find_and_set_shell() path search set default_shell = %s\n"),
            default_shell));
}

/* naive test */
if (!unixy_shell && sh_found
    && (strstr (default_shell, "sh") || strstr (default_shell, "SH")))
{
    unixy_shell = 1;
    batch_mode_shell = 0;
}

#ifndef BATCH_MODE_ONLY_SHELL
    batch_mode_shell = 1;
#endif

free (atoken);
return (sh_found);
}
#endif /* WINDOWS32 */
#endif /* __MSDOS__ */

static void
msdos_return_to_initial_directory (void)
{
    if (directory_before_chdir)
        chdir (directory_before_chdir);
}
#endif /* __MSDOS__ */

static void
reset_jobserver (void)
{
    jobserver_clear ();
    free (jobserver_auth);
    jobserver_auth = NULL;
}
#endif _AMIGA

int main (int argc, char **argv)
#else
int main (int argc, char **argv, char **envp)
#endif
{
    static char *stdin_nm = 0;
    int makefile_status = MAKE_SUCCESS;
    struct goaldep *read_files;
    PATH_VAR (current_directory);
    unsigned int restarts = 0;
    unsigned int syncing = 0;
    int argv_slots;
    #ifdef WINDOWS32
    const char *unix_path = NULL;
    const char *windows32_path = NULL;
    SetUnhandledExceptionFilter (handle_runtime_exceptions);

    /* start off assuming we have no shell */
    unixy_shell = 0;
    no_default_sh_exe = 1;
    #endif

    output_init (&make_sync);
initialize_stopchar_map();

#ifdef SET_STACK_SIZE

/* Get rid of any avoidable limit on stack size. */
{
  struct rlimit rlim;

  /* Set the stack limit huge so that alloca does not fail. */
  if (getrlimit (RLIMIT_STACK, &rlim) == 0
      && rlim.rlim_cur > 0 && rlim.rlim_cur < rlim.rlim_max)
    {
      stack_limit = rlim;
      rlim.rlim_cur = rlim.rlim_max;
      setrlimit (RLIMIT_STACK, &rlim);
    }
  else
    stack_limit.rlim_cur = 0;
}
#endif

/* Needed for OS/2 */
initialize_main (&argc, &argv);

#ifdef MAKE_MAINTAINER_MODE

/* In maintainer mode we always enable verification. */
verify_flag = 1;
#endif

#ifdef __MSDOS__ && !_POSIX_SOURCE

/* Request the most powerful version of `system`, to
make up for the dumb default shell. */
__system_flags = (__system_redirect
    | __system_use_shell
    | __system_allow_multiple_cmds
    | __system_allow_long_cmds
    | __system_handle_null_commands
    | __system_emulate_chdir);
#endif

/* Set up gettext/internationalization support. */
setlocale (LC_ALL, "");

/* The cast to void shuts up compiler warnings on systems that
disable NLS. */
(void)bindtextdomain (PACKAGE, LOCALEDIR);
(void)textdomain (PACKAGE);
```c
#ifdef POSIX
    sigemptyset (&fatal_signal_set);
#define ADD_SIG(sig)    sigaddset (&fatal_signal_set, sig)
#else
    #ifdef HAVE_SIGSETMASK
        fatal_signal_mask = 0;
#define ADD_SIG(sig)    fatal_signal_mask |= sigmask (sig)
    #else
    #define ADD_SIG(sig)    (void)sig
    #endif
#endif
#define FATAL_SIG(sig)                                                        
    if (bsd_signal (sig, fatal_error_signal) == SIG_IGN)                        
    bsd_signal (sig, SIG_IGN);                                                
    else                                                                        
        ADD_SIG (sig);
#endif
#endif
#define SIGHUP
FATAL_SIG (SIGHUP);
#endif
#define SIGQUIT
FATAL_SIG (SIGQUIT);
#endif
FATAL_SIG (SIGINT);
FATAL_SIG (SIGTERM);
#endif
#define __MSDOS__
/* Windows 9X delivers FP exceptions in child programs to their
parent! We don’t want Make to die when a child divides by zero,
so we work around that lossage by catching SIGFPE. */
FATAL_SIG (SIGFPE);
#endif
#define SIGDANGER
FATAL_SIG (SIGDANGER);
#endif
#define SIGXCPU
FATAL_SIG (SIGXCPU);
#endif
#define SIGXFSZ
FATAL_SIG (SIGXFSZ);
#endif
#undef FATAL_SIG

/* Do not ignore the child-death signal. This must be done before
any children could possibly be created; otherwise, the wait
*/
functions won't work on systems with the SVR4 ECHILD brain damage, if our invoker is ignoring this signal. */

#ifndef HAVE_WAIT_NOHANG
#ifndef HAVE_WAIT_NOHANG
  # ifdef HAVE_WAIT_NOHANG
  # if defined SIGCHLD
  (void) bsd_signal (SIGCHLD, SIG_DFL);
  # endif
  # if defined SIGCLD && SIGCLD != SIGCHLD
  (void) bsd_signal (SIGCLD, SIG_DFL);
  # endif
  #endif

  output_init (NULL);

  /* Figure out where this program lives. */

  if (argv[0] == 0)
    argv[0] = (char *)"";
  if (argv[0][0] == '\0')
    program = "make";
  else
    {
      program = strrchr (argv[0], '/');
      #if defined(__MSDOS__) || defined(__EMX__)
      if (program == 0)
        program = strrchr (argv[0], '\');
      else
      {
        /* Some weird environments might pass us argv[0] with both kinds of slashes; we must find the rightmost. */
        char *p = strrchr (argv[0], '\');
        if (p && p > program)
          program = p;
      }
      if (program == 0 && argv[0][1] == ':')
        program = argv[0] + 1;
    #endif
    #ifdef WINDOWS32
    if (program == 0)
      {
        /* Extract program from full path */
        program = strrchr (argv[0], '\');
        if (program)
          {
            int argv0_len = strlen (program);
            if (argv0_len > 4 && streq (&program[argv0_len - 4], ".exe")
              /* Remove .exe extension */
              program[argv0_len - 4] = '\0';
          }
if (need_vms_symbol () && !vms_use_mcr_command)
{
    set_program_name (argv[0]);
    program = program_name;
    
    const char *shell;
    char pwdbuf[256];
    char *pwd;
    shell = getenv ("SHELL");
    if (shell != NULL)
        vms_gnv_shell = 1;
    
    /* Need to know if CRTL set to report UNIX paths. Use getcwd as
     it works on all versions of VMS. */
    pwd = getcwd(pwdbuf, 256);
    if (pwd[0] == '/')
        vms_report_unix_paths = 1;
    
    vms_use_mcr_command = get_vms_env_flag ("GNV$MAKE_USE_MCR", 0);
    vms_always_use_cmd_file = get_vms_env_flag ("GNV$MAKE_USE_CMD_FILE", 0);
    
    /* Legacy behavior is on VMS is older behavior that needed to be
     changed to be compatible with standard make behavior.
     For now only completely disable when running under a Bash shell.
     TODO: Update VMS built in recipes and macros to not need this
     behavior, at which time the default may change. */
    vms_legacy_behavior = get_vms_env_flag ("GNV$MAKE_OLD_VMS",
        !vms_gnv_shell);
    
    /* VMS was changed to use a comma separator in the past, but that is
     incompatible with built in functions that expect space separated
     lists. Allow this to be selectively turned off. */
    vms_comma_separator = get_vms_env_flag ("GNV$MAKE_COMMA",
        vms_legacy_behavior);
    
    /* Some Posix shell syntax options are incompatible with VMS syntax.
     VMS requires double quotes for strings and escapes quotes
     differently. When this option is active, VMS will try
     to simulate Posix shell simulations instead of using
     VMS DCL behavior. */
    vms_unix_simulation = get_vms_env_flag ("GNV$MAKE_SHELL_SIM",
        !vms_legacy_behavior);
}
if (need_vms_symbol () && !vms_use_mcr_command)
create_foreign_command (program_name, argv[0]);
#else
    if (program == 0)
        program = argv[0];
    else
        ++program;
#endif

/* Set up to access user data (files). */
user_access ();

initialize_global_hash_tables ();

/* Figure out where we are. */

#ifdef WINDOWS32
    if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
#else
    if (getcwd (current_directory, GET_PATH_MAX) == 0)
#endif
    {
#ifdef HAVE_GETCWD
        perror_with_name ("getcwd", ":");
#else
        OS (error, NILF, "getwd: %s", current_directory);
#endif
        current_directory[0] = '0';
        directory_before_chdir = 0;
    }
#else
    directory_before_chdir = xstrdup (current_directory);
#endif

/* Make sure we will return to the initial directory, come what may. */
atexit (msdos_return_to_initial_directory);
#endif

/* Initialize the special variables. */
define_variable_cname (".VARIABLES", "", o_default, 0)->special = 1;
/* define_variable_cname (".TARGETS", "", o_default, 0)->special = 1; */
define_variable_cname (".RECIPEPREFIX", "", o_default, 0)->special = 1;
define_variable_cname (".SHELLFLAGS", ":c", o_default, 0);
define_variable_cname (".LOADED", ":", o_default, 0);

/* Set up .FEATURES */
    Use a separate variable because define_variable_cname() is a macro and
    some compilers (MSVC) don't like conditionals in macros.
*/
{  
const char *features = "target-specific order-only second-expansion"
    " else-if shortest-stem undefine oneshell"
#endif
#define_VARIABLE_CNAME (.FEATURES, features, o_default, 0);
}

/* Configure GNU Guile support */
guile_gmake_setup (NILF);

/* Read in variables from the environment. It is important that this be
done before $(MAKE) is figured out so its definitions will not be
from the environment. */
#endif
#define _AMIGA
{
    unsigned int i;

    for (i = 0; envp[i] != 0; ++i)
    {
        struct variable *v;
        const char *ep = envp[i];
        /* By default, export all variables culled from the environment. */
        enum variable_export export = v_export;
        unsigned int len;
        while (! STOP_SET (*ep, MAP_EQUALS))
            ++ep;
        while (! STOP_SET (*ep, MAP_EQUALS))
            ++ep;

    }
}
/* If there's no equals sign it's a malformed environment. Ignore. */
if (*ep == '\0')
    continue;

#define WINDOWS32
if (!unix_path && strneq (envp[i], "PATH=", 5))
    unix_path = ep+1;
else if (!strnicmp (envp[i], "Path=", 5))
    {
        if (!windows32_path)
            windows32_path = ep+1;
        /* PATH gets defined after the loop exits. */
        continue;
    }
#endif

/* Length of the variable name, and skip the '='. */
len = ep++ - envp[i];

/* If this is MAKE_RESTARTS, check to see if the "already printed the enter statement" flag is set. */
if (len == 13 && strneq (envp[i], "MAKE_RESTARTS", 13))
    {
        if (*ep == '-')
            {
                OUTPUT_TRACED ()
                ++ep;
            }
        restarts = (unsigned int) atoi (ep);
        export = v_noexport;
    }

v = define_variable (envp[i], len, ep, o_env, 1);

/* POSIX says the value of SHELL set in the makefile won't change the value of SHELL given to subprocesses. */
if (streq (v->name, "SHELL"))
    {
        ifndef __MSDOS__
            export = v_noexport;
        ifndef
            shell_var.name = xstrdup ("SHELL");
            shell_var.length = 5;
            shell_var.value = xstrdup (ep);
        endif
        v->export = export;
    }
ifdef WINDOWS32
/* If we didn't find a correctly spelled PATH we define PATH as
 * either the first misspelled value or an empty string
 */
if (!unix_path)
define_variable_cname ("PATH", windows32_path ? windows32_path : ",
o_env, l)->export = v_export;
#endif
#else /* For Amiga, read the ENV: device, ignoring all dirs */

BPTR env, file, old;
char buffer[1024];
int len;
__aligned struct FileInfoBlock fib;

env = Lock ("ENV:", ACCESS_READ);
if (env)
{
    old = CurrentDir (DupLock (env));
    Examine (env, &fib);

    while (ExNext (env, &fib))
    {
        if (fib.fib_DirEntryType < 0) /* File */
        {
            /* Define an empty variable. It will be filled in
            variable_lookup(). Makes startup quite a bit faster. */
            define_variable (fib.fib_FileName,
            strlen (fib.fib_FileName),
            ", o_env, l)->export = v_export;
        }
    }
    UnLock (env);
    UnLock (CurrentDir (old));
}
#endif

/* Decode the switches. */
decode_env_switches (STRING_SIZE_TUPLE ("GNUMAKEFLAGS"));

/* Clear GNUMAKEFLAGS to avoid duplication. */
define_variable_cname ("GNUMAKEFLAGS", ", o_env, 0);

decode_env_switches (STRING_SIZE_TUPLE ("MAKEFLAGS"));
#if 0
/* People write things like: 
   MFLAGS="CC=gcc -pipe" "CFLAGS=-g"
   and we set the -p, -i and -e switches. Doesn't seem quite right. */
decode_env_switches (STRING_SIZE_TUPLE ("MFLAGS"));
#endif
/* In output sync mode we need to sync any output generated by reading the 
makefiles, such as in $(info ...) or stderr from $(shell ...) etc. */
syncing = make_sync.syncout = (output_sync == OUTPUT_SYNC_LINE 
  || output_sync == OUTPUT_SYNC_TARGET);
OUTPUT_SET (&make_sync);
/* Remember the job slots set through the environment vs. command line. */
{
  int env_slots = arg_job_slots;
  arg_job_slots = INVALID_JOB_SLOTS;

  decode_switches (argc, (const char **)argv, 0);
  argv_slots = arg_job_slots;

  if (arg_job_slots == INVALID_JOB_SLOTS)
    arg_job_slots = env_slots;
}
/* Set a variable specifying whether stdout/stdin is hooked to a TTY. */
#ifndef HAVE_ISATTY
if (isatty (fileno (stdout)))
  if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMOUT")))
    {
      const char *tty = TTYNAME (fileno (stdout));
      define_variable_cname ("MAKE_TERMOUT", tty ? tty : DEFAULT_TTYNAME,
          o_default, 0)->export = v_export;
    }
if (isatty (fileno (stderr)))
  if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMERR")))
    {
      const char *tty = TTYNAME (fileno (stderr));
      define_variable_cname ("MAKE_TERMERR", tty ? tty : DEFAULT_TTYNAME,
          o_default, 0)->export = v_export;
    }
#endif
/* Reset in case the switches changed our minds. */
syncing = (output_sync == OUTPUT_SYNC_LINE 
  || output_sync == OUTPUT_SYNC_TARGET);
if (make_sync.syncout && ! syncing)
output_close (&make_sync);

make_sync.syncout = syncing;
OUTPUT_SET (&make_sync);

/* Figure out the level of recursion. */
{
    struct variable *v = lookup_variable (STRING_SIZE_TUPLE (MAKELEVEL_NAME));
    if (v && v->value[0] != '\0' && v->value[0] != '-')
        makelevel = (unsigned int) atoi (v->value);
    else
        makelevel = 0;
}

#ifdef WINDOWS32
if (suspend_flag)
{
    fprintf (stderr, "%s (pid = %ld)\n", argv[0], GetCurrentProcessId ());
    fprintf (stderr, _("%s is suspending for 30 seconds..."), argv[0]);
    Sleep (30 * 1000);
    fprintf (stderr, _("done sleep(30). Continuing.\n"));
}
#endif

/* Set always_make_flag if -B was given and we've not restarted already. */
always_make_flag = always_make_set && (restarts == 0);

/* Print version information, and exit. */
if (print_version_flag)
{
    print_version ();
    die (MAKE_SUCCESS);
}

if (ISDB (DB_BASIC))
    print_version ();

#ifdef VMS
/* Set the "MAKE_COMMAND" variable to the name we were invoked with.
   (If it is a relative pathname with a slash, prepend our directory name
   so the result will run the same program regardless of the current dir.
   If it is a name with no slash, we can only hope that PATH did not
   find it in the current directory.) */
#endif
#ifdef WINDOWS32
/*
 * Convert from backslashes to forward slashes for
 * programs like sh which don't like them. Shouldn't
 * matter if the path is one way or the other for
* CreateProcess(). */
if (strpbrk (argv[0], "\/") || strstr (argv[0], ".")
    || strneq (argv[0], "/", 2))
    argv[0] = xstrdup (w32ify (argv[0], 1));
#else /* WINDOWS32 */
#if defined (__MSDOS__) || defined (__EMX__)
    if (strchr (argv[0], '\'))
        { char *p;
          argv[0] = xstrdup (argv[0]);
          for (p = argv[0]; *p; p++)
              if (*p == '\')
                  *p = '/';
        }
    /* If argv[0] is not in absolute form, prepend the current directory. This can happen when Make is invoked by another DJGPP program that uses a non-absolute name. */
    if (current_directory[0] != '\
        && argv[0][0] != 0
        && (argv[0][0] != 'r' && (argv[0][0] == '0' || argv[0][1] != ':'))
#if defined __EMX__
        /* do not prepend cwd if argv[0] contains no '/', e.g. "make" */
        && (strchr (argv[0], '/') != 0 || strchr (argv[0], '\') != 0)
    #endif
    )
        argv[0] = xstrdup (concat (3, current_directory, "/", argv[0]));
#else /* !_MSDOS__ */
    if (current_directory[0] != '\
        && argv[0][0] != 0 && argv[0][0] != 'r' && strchr (argv[0], '/') != 0
#if defined HAVE_DOS_PATHS
        && (argv[0][0] != '\ & (argv[0][0] || argv[0][1] != ':'))
    #endif
    )
        argv[0] = xstrdup (concat (3, current_directory, "/", argv[0]));
#endif /* !_MSDOS__ */
#endif /* WINDOWS32 */
#endif

/* We may move, but until we do, here we are. */
starting_directory = current_directory;

/* Set up the job_slots value and the jobserver. This can't be usefully set in the makefile, and we want to verify the authorization is valid before make has a chance to start using it for something else. */
if (jobserver_auth)
{
    if (argv_slots == INVALID_JOB_SLOTS)
    {
        if (jobserver_parse_auth(jobserver_auth))
        {
            /* Success! Use the jobserver. */
            job_slots = 0;
            goto job_setup_complete;
        }
    O (error, NILF, _("warning: jobserver unavailable: using -j1. Add '+' to parent make rule.");
    arg_job_slots = 1;
    }

    /* The user provided a -j setting on the command line: use it. */
    else if (!restarts)
    { /* If restarts is >0 we already printed this message. */
        O (error, NILF, _("warning: -jN forced in submake: disabling jobserver mode.");

        /* We failed to use our parent's jobserver. */
        reset_jobserver();
        job_slots = (unsigned int)arg_job_slots;
    }
    else if (arg_job_slots == INVALID_JOB_SLOTS)
    { /* The default is one job at a time. */
        job_slots = 1;
    else
    /* Use whatever was provided. */
    job_slots = (unsigned int)arg_job_slots;

    job_setup_complete:

    /* The extra indirection through $MAKE_COMMAND) is done
    for hysterical raisins. */

    #ifdef VMS
    if (vms_use_mcr_command)
        define_variable_cname("MAKE_COMMAND", vms_command(argv[0]), o_default, 0);
    else
        define_variable_cname("MAKE_COMMAND", program, o_default, 0);
    #else
    define_variable_cname("MAKE_COMMAND", argv[0], o_default, 0);
    #endif
    define_variable_cname("MAKE", "$MAKE_COMMAND", o_default, 1);

    if (command_variables != 0)
struct command_variable *cv;
struct variable *v;
unsigned int len = 0;
char *value, *p;

/* Figure out how much space will be taken up by the command-line variable definitions. */
for (cv = command_variables; cv != 0; cv = cv->next)
{
    v = cv->variable;
    len += 2 * strlen (v->name);
    if (! v->recursive)
        ++len;
    ++len;
    len += 2 * strlen (v->value);
    ++len;
}

/* Now allocate a buffer big enough and fill it. */
p = value = alloca (len);
for (cv = command_variables; cv != 0; cv = cv->next)
{
    v = cv->variable;
    p = quote_for_env (p, v->name);
    if (! v->recursive)
        *p++ = ':';
    *p++ = '=';
    p = quote_for_env (p, v->value);
    *p++ = ' ';  
}
p[-1] = '\0';  /* Kill the final space and terminate. */

/* Define an unchangeable variable with a name that no POSIX.2 makefile could validly use for its own variable. */
define_variable_cname("-*-command-variables-*-", value, o_automatic, 0);

/* Define the variable; this will not override any user definition. Normally a reference to this variable is written into the value of MAKEFLAGS, allowing the user to override this value to affect the exported value of MAKEFLAGS. In POSIX-pedantic mode, we cannot allow the user’s setting of MAKEOVERRIDES to affect MAKEFLAGS, so a reference to this hidden variable is written instead. */
define_variable_cname("MAKEOVERRIDES", "${-*command-variables-*-}", o_env, 1);
#ifdef VMS
    vms_export_dcl_symbol("MAKEOVERRIDES", "${-*command-variables-*-}");
#endif
/* If there were -C flags, move ourselves about. */
if (directories != 0)
{
    unsigned int i;
    for (i = 0; directories->list[i] != 0; ++i)
    {
        const char *dir = directories->list[i];
    }
#endif
    if (directories != 0)
    {
        unsigned int i;
        for (i = 0; directories->list[i] != 0; ++i)
        {
            const char *dir = directories->list[i];
        }
#endif
#endif}
/* WINDOWS32
   /* WINDOWS32 chdir() doesn't work if the directory has a trailing '/'
       But allow -C/ just in case someone wants that. */
    {
        char *p = (char *)dir + strlen (dir) - 1;
        while (p > dir && (p[0] == '/' || p[0] == '\'))
            --p;
        p[1] = '\0';
    }
#endif
    if (chdir (dir) < 0)
        pfatal_with_name (dir);
} }
#endif /* WINDOWS32 */
/* THIS BLOCK OF CODE MUST COME AFTER chdir() CALL ABOVE IN ORDER
   * TO NOT CONFUSE THE DEPENDENCY CHECKING CODE IN implicit.c.
   *
   * The functions in dir.c can incorrectly cache information for "." 
   * before we have changed directory and this can cause file
   * lookups to fail because the current directory (.) was pointing 
   * at the wrong place when it was first evaluated.
   */
    no_default_sh_exe = !find_and_set_default_shell (NULL);
#endif // WINDOWS32 */
/* Except under -s, always do -w in sub-makes and under -C. */
if (!silent_flag && (directories != 0 || makelevel > 0))
    print_directory_flag = 1;
/* Let the user disable that with --no-print-directory. */
if (inhibit_print_directory_flag)
    print_directory_flag = 0;
/* If -R was given, set -r too (doesn't make sense otherwise!) */
if (no_builtin_variables_flag)
    no_builtin_rules_flag = 1;
/* Construct the list of include directories to search. */

construct_include_path (include_directories == 0
    ? 0 : include_directories->list);

/* If we chdir'ed, figure out where we are now. */
if (directories)
    {
#ifdef WINDOWS32
    if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
#else
    if (getcwd (current_directory, GET_PATH_MAX) == 0)
#endif
        {
#ifdef HAVE_GETCWD
            perror_with_name ("getcwd", ");
#else
            OS (error, NILF, "getwd: %s", current_directory);
#endif
                starting_directory = 0;
        }
#else
                starting_directory = current_directory;
        }

define_variable_cname ("CURDIR", current_directory, o_file, 0);

/* Read any stdin makefiles into temporary files. */
if (makefiles != 0)
    {
        unsigned int i;
        for (i = 0; i < makefiles->idx; ++i)
            if (makefiles->list[i][0] == '-' && makefiles->list[i][1] == '0')
                {
                    /* This makefile is standard input. Since we may re-exec
                        and thus re-read the makefiles, we read standard input
                        into a temporary file and read from that. */
                    FILE *outfile;
                    char *template;
                    const char *tmpdir;

                    if (stdin_nm)
                        O (fatal, NILF,
                            _("Makefile from standard input specified twice.");)

#ifdef VMS
# define DEFAULT_TMPDIR     "/sys$scratch/"
#else
# ifdef P_tmpdir
# define DEFAULT_TMPDIR     P_tmpdir
#else
# define DEFAULT_TMPDIR     "/tmp"
#endif
#endif
#define DEFAULT_TMPFILE     "GmXXXXXX"

if (((tmpdir = getenv ("TMPDIR")) == NULL || *tmpdir == '\0')
#if defined (__MSDOS__) || defined (WINDOWS32) || defined (__EMX__)  /* These are also used commonly on these platforms. */
&& ((tmpdir = getenv ("TEMP")) == NULL || *tmpdir == '\0')
&& ((tmpdir = getenv ("TMP")) == NULL || *tmpdir == '\0')
#endif)
)
tmpdir = DEFAULT_TMPDIR;

template = alloca (strlen (tmpdir) + strlen (DEFAULT_TMPFILE) + 2);
strcpy (template, tmpdir);
#if defined HAVE_DOS_PATHS
if (strchr ("/\", template[strlen (template) - 1]) == NULL)
    strcat (template, "/");
#else
# ifndef VMS
if (template[strlen (template) - 1] != '/')
    strcat (template, "/");
# endif /* !VMS */
#endif /* !HAVE_DOS_PATHS */

strcat (template, DEFAULT_TMPFILE);
outfile = output_tmpfile (&stdin_nm, template);
if (outfile == 0)
    pfatal_with_name (_("fopen (temporary file)"));
while (!feof (stdin) && ! ferror (stdin))
{
    char buf[2048];
    unsigned int n = fread (buf, 1, sizeof (buf), stdin);
    if (n > 0 && fwrite (buf, 1, n, outfile) != n)
        pfatal_with_name (_("fwrite (temporary file)"));
}
fclose (outfile);

/* Replace the name that read_all_makefiles will see with the name of the temporary file. */
makefiles->list[i] = strcache_add (stdin_nm);
/* Make sure the temporary file will not be remade. */
{
    struct file *f = enter_file (strcache_add (stdin_nm));
    f->updated = 1;
    f->update_status = us_success;
    f->command_state = cs_finished;
    /* Can't be intermediate, or it'll be removed too early for
    make re-exec. */
    f->intermediate = 0;
    f->dontcare = 0;
}

#ifndef __EMX__ /* Don't use a SIGCHLD handler for OS/2 */
#ifndef HAVE_WAIT_NOHANG || defined(MAKE_JOBSERVER)
/* Set up to handle children dying. This must be done before
reading in the makefiles so that 'shell' function calls will work.

If we don't have a hanging wait we have to fall back to old, broken
functionality here and rely on the signal handler and counting
children.

If we're using the jobs pipe we need a signal handler so that SIGCHLD is
not ignored; we need it to interrupt the read(2) of the jobserver pipe if
we're waiting for a token.

If none of these are true, we don't need a signal handler at all. */
{
    #if defined SIGCHLD
    bsd_signal (SIGCHLD, child_handler);
    #endif
    #if defined SIGCLD && SIGCLD != SIGCHLD
    bsd_signal (SIGCLD, child_handler);
    #endif
}
#endif
#endif HAVE_PSELECT
/* If we have pselect() then we need to block SIGCHLD so it's deferred. */
{
    sigset_t block;
    sigemptyset (&block);
    sigaddset (&block, SIGCHLD);
    if (sigprocmask (SIG_SETMASK, &block, NULL) < 0)
        pfatal_with_name ("sigprocmask(SIG_SETMASK, SIGCHLD)");
}
#endif
/* Let the user send us SIGUSR1 to toggle the -d flag during the run. */
#ifdef SIGUSR1
bsd_signal (SIGUSR1, debug_signal_handler);
#endif

/* Define the initial list of suffixes for old-style rules. */
set_default_suffixes ();

/* Define the file rules for the built-in suffix rules. These will later
be converted into pattern rules. We used to do this in
install_default_implicit_rules, but since that happens after reading
makefiles, it results in the built-in pattern rules taking precedence
over makefile-specified suffix rules, which is wrong. */
install_default_suffix_rules ();

/* Define some internal and special variables. */
define_automatic_variables ();

/* Set up the MAKEFLAGS and MFLAGS variables for makefiles to see.
Initialize it to be exported but allow the makefile to reset it. */
define_makeflags (0, 0)->export = v_export;

/* Define the default variables. */
define_default_variables ();

default_file = enter_file (strcache_add (".DEFAULT"));

default_goal_var = define_variable_cname (".DEFAULT_GOAL", ",", o_file, 0);

/* Evaluate all strings provided with --eval.
Also set up the $(-*-eval-flags-*-) variable. */
if (eval_strings)
{
  char *p, *value;
  unsigned int i;
  unsigned int len = (CSTRLEN ("--eval=") + 1) * eval_strings->idx;

  for (i = 0; i < eval_strings->idx; ++i)
  {
    p = xstrdup (eval_strings->list[i]);
    len += 2 * strlen (p);
    eval_buffer (p, NULL);
    free (p);
  }
}
p = value = alloca (len);
for (i = 0; i < eval_strings->idx; ++i)
{
    strcpy (p, "--eval=");
    p += CSTRLEN ("--eval=");
    p = quote_for_env (p, eval_strings->list[i]);
    *(p++) = '\0';
}  
p[-1] = '\0';

define_variable_cname ("-.*-eval-flags-.*", value, o_automatic, 0);
}

/* Read all the makefiles. */
read_files = read_all_makefiles (makefiles == 0 ? 0 : makefiles->list);

#ifdef WINDOWS32
/* look one last time after reading all Makefiles */
if (no_default_sh_exe)
    no_default_sh_exe = !find_and_set_default_shell (NULL);
#endif /* WINDOWS32 */

#ifdef __MSDOS__ || defined (__EMX__) || defined (VMS)
/* We need to know what kind of shell we will be using. */
{
    extern int _is_unixy_shell (const char *path);
    struct variable *shv = lookup_variable (STRING_SIZE_TUPLE ("SHELL"));
    extern int unixy_shell;
    extern const char *default_shell;
    if (shv && *shv->value)
    {
        char *shell_path = recursively_expand (shv);

        if (shell_path && _is_unixy_shell (shell_path))
            unixy_shell = 1;
        else
            unixy_shell = 0;
        if (shell_path)
            default_shell = shell_path;
    }
#endif /* __MSDOS__ || __EMX__ */

int old_builtin_rules_flag = no_builtin_rules_flag;
int old_builtin_variables_flag = no_builtin_variables_flag;

/* Decode switches again, for variables set by the makefile. */
decode_env_switches (STRING_SIZE_TUPLE ("GNUMAKEFLAGS"));

/* Clear GNUMAKEFLAGS to avoid duplication. */
define_variable_cname ("GNUMAKEFLAGS", ",", o_override, 0);

decode_env_switches (STRING_SIZE_TUPLE ("MAKEFLAGS"));
#if 0
decode_env_switches (STRING_SIZE_TUPLE ("MFLAGS"));
#endif

/* Reset in case the switches changed our mind. */
syncing = (output_sync == OUTPUT_SYNC_LINE
           || output_sync == OUTPUT_SYNC_TARGET);

if (make_sync.syncout && ! syncing)
  output_close (&make_sync);
make_sync.syncout = syncing;
OUTPUT_SET (&make_sync);

/* If we've disabled builtin rules, get rid of them. */
if (no_builtin_rules_flag && ! old_builtin_rules_flag)
{
  if (suffix_file->builtin)
  {
    free_dep_chain (suffix_file->deps);
    suffix_file->deps = 0;
  }
  define_variable_cname ("SUFFIXES", ",", o_default, 0);
}

/* If we've disabled builtin variables, get rid of them. */
if (no_builtin_variables_flag && ! old_builtin_variables_flag)
  undefine_default_variables ()
}

#if defined (__MSDOS__) || defined (__EMX__) || defined (VMS)
if (arg_job_slots != 1
  #ifdef __EMX__
    && _osmode != OS2_MODE /* turn off -j if we are in DOS mode */
  #endif
  
  O (error, NILF,

"Parallel jobs (-j) are not supported on this platform.

O (error, NILF, "Resetting to single job (-j1) mode.

arg_job_slots = job_slots = 1;

#ifdef

/* If we have >1 slot at this point, then we're a top-level make.
Set up the jobserver.

Every make assumes that it always has one job it can run. For the
submakes it's the token they were given by their parent. For the top
make, we just subtract one from the number the user wants. */

if (job_slots > 1 && jobserver_setup (job_slots - 1))
{
  /* Fill in the jobserver_auth for our children. */
  jobserver_auth = jobserver_get_auth ();

  if (jobserver_auth)
  {
    /* We're using the jobserver so set job_slots to 0. */
    master_job_slots = job_slots;
    job_slots = 0;
  }
}

/* If we're not using parallel jobs, then we don't need output sync.
This is so people can enable output sync in GNUMAKEFLAGS or similar, but
not have it take effect unless parallel builds are enabled. */
if (syncing && job_slots == 1)
{
  OUTPUT_UNSET ();
  output_close (&make_sync);
  syncing = 0;
  output_sync = OUTPUT_SYNC_NONE;
}
#endif

ifndef MAKE_SYMLINKS
if (check_symlink_flag)
{
  O (error, NILF, "Symbolic links not supported: disabling -L.");
  check_symlink_flag = 0;
}
#endif

/* Set up MAKEFLAGS and MFLAGS again, so they will be right. */

define_makeflags (1, 0);
/* Make each 'struct goaldep' point at the 'struct file' for the file
depended on. Also do magic for special targets. */

snap_deps();

/* Convert old-style suffix rules to pattern rules. It is important to
do this before installing the built-in pattern rules below, so that
makefile-specified suffix rules take precedence over built-in pattern
rules. */

convert_to_pattern();

/* Install the default implicit pattern rules.
This used to be done before reading the makefiles.
But in that case, built-in pattern rules were in the chain
before user-defined ones, so they matched first. */

install_default_implicit_rules();

/* Compute implicit rule limits. */

count_implicit_rule_limits();

/* Construct the listings of directories in VPATH lists. */

build_vpath_lists();

/* Mark files given with -o flags as very old and as having been updated
already, and files given with -W flags as brand new (time-stamp as far
as possible into the future). If restarts is set we'll do -W later. */

if (old_files != 0)
{
    const char **p;
    for (p = old_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = OLD_MTIME;
        f->updated = 1;
        f->update_status = us_success;
        f->command_state = cs_finished;
    }
}

if (!restarts && new_files != 0)
{
    const char **p;
for (p = new_files->list; *p != 0; ++p)
{
    struct file *f = enter_file (*p);
    f->last_mtime = f->mtime_before_update = NEW_MTIME;
}
}

/* Initialize the remote job module. */
remote_setup();

/* Dump any output we've collected. */
OUTPUT_UNSET();
output_close (&make_sync);

if (read_files != 0)
{
    /* Update any makefiles if necessary. */

    FILE_TIMESTAMP *makefile_mtimes = 0;
    unsigned int mm_idx = 0;
    char **aargv = NULL;
    const char **nargv;
    int nargc;
    enum update_status status;
    DB (DB_BASIC, (_("Updating makefiles...
")));

    /* Remove any makefiles we don't want to try to update.
    Also record the current modtimes so we can compare them later. */

    register struct goaldep *d, *last;
    last = 0;
    d = read_files;
    while (d != 0)
    {
        struct file *f = d->file;
        if (f->double_colon)
        for (f = f->double_colon; f != NULL; f = f->prev)
        {
            if (f->deps == 0 && f->cmds != 0)
            {
                /* This makefile is a :: target with commands, but
                   no dependencies. So, it will always be remade.
                   This might well cause an infinite loop, so don't
                   try to remake it. (This will only happen if
                   your makefiles are written exceptionally
                   stupidly; but if you work for Athena, that's how

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you write your makefiles.) */

DB (DB_VERBOSE,
  (_("Makefile '\%s' might loop; not remaking it\n"),
   f->name));

if (last == 0)
  read_files = d->next;
else
  last->next = d->next;

/* Free the storage. */
free_goaldep (d);

d = last == 0 ? read_files : last->next;

break;
}
}

if (f == NULL || !f->double_colon)
{
  makefile_mtimes = xrealloc (makefile_mtimes,
       (mm_idx+1) * sizeof (FILE_TIMESTAMP));
  makefile_mtimes[mm_idx++] = file_mtime_no_search (d->file);
  last = d;
  d = d->next;
}
}

/* Set up 'MAKEFLAGS' specially while remaking makefiles. */
define_makeflags (1, 1);
{
  int orig_db_level = db_level;

  if (!ISDB (DB_MAKEFILES))
    db_level = DB_NONE;

  rebuilding_makefiles = 1;
  status = update_goal_chain (read_files);
  rebuilding_makefiles = 0;

  db_level = orig_db_level;
}
switch (status)
{
    case us_question:
        /* The only way this can happen is if the user specified `-q` and asked
for one of the makefiles to be remade as a target on the command
line. Since we're not actually updating anything with `-q` we can
treat this as "did nothing". */
        break;
    case us_none:
        /* Did nothing. */
        break;
    case us_failed:
        /* Failed to update. Figure out if we care. */
        {
            /* Nonzero if any makefile was successfully remade. */
            int any_remade = 0;
            /* Nonzero if any makefile we care about failed
in updating or could not be found at all. */
            int any_failed = 0;
            unsigned int i;
            struct goaldep *d;

            for (i = 0, d = read_files; d != 0; ++i, d = d->next)
            {
                if (d->file->updated)
                {
                    /* This makefile was updated. */
                    if (d->file->update_status == us_success)
                    {
                        /* It was successfully updated. */
                        any_remade |= (file_mtime_no_search (d->file)
                                        != makefile_mtimes[i]);
                    }
                    else if (! (d->flags & RM_DONTCARE))
                    {
                        FILE_TIMESTAMP mtime;
                        /* The update failed and this makefile was not
from the MAKEFILES variable, so we care. */
                        OS (error, NILF, _("Failed to remake makefile ‘%s’.");
                            d->file->name);
                        mtime = file_mtime_no_search (d->file);
                        any_remade |= (mtime != NONEXISTENT_MTIME
                                        && mtime != makefile_mtimes[i]);
                        makefile_status = MAKE_FAILURE;
                    }
                }
            }
        }

/* This makefile was not found at all. */
if (! (d->flags & RM_DONTCARE))
{
    const char *dnm = dep_name (d);
    size_t l = strlen (dnm);

    /* This is a makefile we care about. See how much. */
    if (d->flags & RM_INCLUDED)
        /* An included makefile. We don't need to die, but we
do want to complain. */
        error (NILF, l,
            _("Included makefile '%s' was not found.'"), dnm);
    else
        {
            /* A normal makefile. We must die later. */
            error (NILF, l,
                _("Makefile '%s' was not found"), dnm);
            any_failed = 1;
        }
}
/* Reset this to empty so we get the right error message below. */
read_files = 0;

if (any_remade)
goto re_exec;
if (any_failed)
die (MAKE_FAILURE);
break;
}
case us_success:
re_exec:
    /* Updated successfully. Re-exec ourselves. */
    remove_intermediates (0);
    if (print_data_base_flag)
        print_data_base ();
    clean_jobserver (0);
    if (makefiles != 0)
    {
        /* These names might have changed. */
        int i, j = 0;
        for (i = 1; i < argc; ++i)
            if (strcasecmp (argv[i], "-f", 2)) /* XXX */
if (argv[i][2] == '0')
 /* This cast is OK since we never modify argv. */
 argv[++i] = (char *) makefiles->list[j];
 else
 argv[i] = xstrdup (concat (2, "-f", makefiles->list[j]));
 ++j;
 }

/* Add -o option for the stdin temporary file, if necessary. */
nargc = argc;
if (stdin_nm)
{
    void *m = xmalloc ((nargc + 2) * sizeof (char *));
    argv = m;
    memcpy (argv, argv, argc * sizeof (char *));
    argv[nargc++] = xstrdup (concat (2, "-o", stdin_nm));
    argv[nargc] = 0;
    nargv = m;
} else
nargv = (const char**)argv;
if (directories != 0 && directories->idx > 0)
{
    int bad = 1;
    if (directory_before_chdir != 0)
    {
        if (chdir (directory_before_chdir) < 0)
            perror_with_name ("chdir", "");
        else
            bad = 0;
    }
    if (bad)
        O (fatal, NILF,
            _("Couldn't change back to original directory.");
    }
++restarts;
if (ISDB (DB_BASIC))
{
    const char **p;
    printf (_("Re-executing[%u]:"), restarts);
    for (p = nargv; *p != 0; ++p)
        printf (" %s", *p);
    putchar ('\n');


```c
fflush (stdout);
}

#ifndef _AMIGA
    
    char **p;
    for (p = environ; *p != 0; ++p)
    {
        if (strneq (*p, MAKELEVEL_NAME "=" , MAKELEVEL_LENGTH+1))
            *p = alloca (40);
        sprintf (*p, "%s=%u", MAKELEVEL_NAME, makelevel);
    }
    
    ifdef VMS
        vms_putenv_symbol (*p);
    
    endif
    
else if (strneq (*p, "MAKE_RESTARTS=" , CSTRLEN ("MAKE_RESTARTS=")))
    {
        *p = alloca (40);
        sprintf (*p, "MAKE_RESTARTS=%s%u", MAKELEVEL_NAME, makelevel);
        
        ifdef VMS
            vms_putenv_symbol (*p);
        
        endif
        
    }
    
#else /* AMIGA */

    char buffer[256];

    sprintf (buffer, "%u", makelevel);
    SetVar (MAKELEVEL_NAME, buffer, -1, GVF_GLOBAL_ONLY);

    sprintf (buffer, "%s%u", OUTPUT_IS_TRACED () ? "-" : "", restarts);
    SetVar ("MAKE_RESTARTS", buffer, -1, GVF_GLOBAL_ONLY);
    restarts = 0;
}
#endif

/* If we didn't set the restarts variable yet, add it. */
if (restarts)
{
    char *b = alloca (40);
    sprintf (b, "MAKE_RESTARTS=%s%u", MAKELEVEL_NAME, makelevel);

    restarts = 0;
    
    if (restarts)
    {
        char *b = alloca (40);
        sprintf (b, "MAKE_RESTARTS=%s%u", OUTPUT_IS_TRACED () ? "-" : "", restarts);
        printf (b);
    }

    fflush (stdout);
```

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fflush (stderr);

#ifdef __AMIGA
    exec_command (nargv);
    exit (0);
#else defined (__EMX__)
    /* It is not possible to use execve() here because this
     would cause the parent process to be terminated with
     exit code 0 before the child process has been terminated.
     Therefore it may be the best solution simply to spawn the
     child process including all file handles and to wait for its
     termination. */
    int pid;
    int r;
    pid = child_execute_job (NULL, 1, nargv, environ);

    /* is this loop really necessary? */
    do {
        pid = wait (&r);
    } while (pid <= 0);
    /* use the exit code of the child process */
    exit (WIFEXITED(r) ? WEXITSTATUS(r) : EXIT_FAILURE);
#endif
else
    ifdef SET_STACK_SIZE
    /* Reset limits, if necessary. */
    if (stack_limit.rlim_cur)
        setrlimit (RLIMIT_STACK, &stack_limit);
    #endif
    exec_command ((char **)nargv, environ);
#endif
free (aargv);
break;
}
/* Free the makefile mtimes. */
free (makefile_mtimes);
}

/* Set up 'MAKEFLAGS' again for the normal targets. */
define_makeflags (1, 0);

/* Set always_make_flag if -B was given. */
always_make_flag = always_make_set;

/* If restarts is set we haven't set up -W files yet, so do that now. */
if (restarts && new_files != 0)
{
    const char **p;
    for (p = new_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = NEW_MTIME;
    }
}

/* If there is a temp file from reading a makefile from stdin, get rid of
it now. */
if (stdin_nm && unlink (stdin_nm) < 0 && errno != ENOENT)
    perror_with_name ("unlink (temporary file): ", stdin_nm);

/* If there were no command-line goals, use the default. */
if (goals == 0)
{
    char *p;

    if (default_goal_var->recursive)
        p = variable_expand (default_goal_var->value);
    else
    {
        p = variable_buffer_output (variable_buffer, default_goal_var->value,
                                   strlen (default_goal_var->value));
        *p = '\0';
        p = variable_buffer;
    }

    if (*p != '\0')
    {
        struct file *f = lookup_file (p);

        /* If .DEFAULT_GOAL is a non-existent target, enter it into the
         * table and let the standard logic sort it out. */
        if (f == 0)
        {
            struct nameseq *ns;

            ns = PARSE_SIMPLE_SEQ (&p, struct nameseq);
            if (ns)
            {
                /* .DEFAULT_GOAL should contain one target. */
                if (ns->next != 0)
                    O (fatal, NILF,
                        (".DEFAULT_GOAL contains more than one target");

                f = enter_file (strcache_add (ns->name));
            }
        }
    }
}
ns->name = 0; /* It was reused by enter_file(). */
free_ns_chain (ns);
}

if (f)
{
    goals = alloc_goaldep ();
goals->file = f;
}
}
else
lastgoal->next = 0;

if (!goals)
{
    if (read_files == 0)
        O (fatal, NILF, _("No targets specified and no makefile found"));
    O (fatal, NILF, _("No targets"));
}

/* Update the goals. */

DB (DB_BASIC, (_("Updating goal targets....\n")));

{
switch (update_goal_chain (goals))
{
case us_none:
    /* Nothing happened. */
    /* FALLTHROUGH */
case us_success:
    /* Keep the previous result. */
    break;
case us_question:
    /* We are under -q and would run some commands. */
    makefile_status = MAKE_TROUBLE;
    break;
case us_failed:
    /* Updating failed. POSIX.2 specifies exit status >1 for this; */
    makefile_status = MAKE_FAILURE;
    break;
}
/* If we detected some clock skew, generate one last warning */
if (clock_skew_detected)
O (error, NILF,
_("warning: Clock skew detected. Your build may be incomplete."));
/* Exit. */
die (makefile_status);
}
/* NOTREACHED */
exit (MAKE_SUCCESS);
}
/* Parsing of arguments, decoding of switches. */
static char options[1 + sizeof (switches) / sizeof (switches[0]) * 3];
static struct option long_options[(sizeof (switches) / sizeof (switches[0])) +
(sizeof (long_option_aliases) /
sizeof (long_option_aliases[0]))];
/* Fill in the string and vector for getopt. */
static void
init_switches (void)
{
char *p;
unsigned int c;
unsigned int i;
if (options[0] != '\0')
/* Already done. */
return;
p = options;
/* Return switch and non-switch args in order, regardless of
POSIXLY_CORRECT. Non-switch args are returned as option 1. */
*p++ = '-';
for (i = 0; switches[i].c != '\0'; ++i)
{
long_options[i].name = (switches[i].long_name == 0 ? "" :
switches[i].long_name);
long_options[i].flag = 0;
long_options[i].val = switches[i].c;
if (short_option (switches[i].c))
*p++ = switches[i].c;
switch (switches[i].type)
{

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case flag:
  case flag_off:
  case ignore:
    long_options[i].has_arg = no_argument;
    break;

  case string:
  case strlist:
  case filename:
  case positive_int:
  case floating:
    if (short_option (switches[i].c))
      *p++ = ':';
    if (switches[i].noarg_value != 0)
      {
        if (short_option (switches[i].c))
          *p++ = ':';
        long_options[i].has_arg = optional_argument;
      }
    else
      long_options[i].has_arg = required_argument;
    break;
  }
  *p = '\0';
for (c = 0; c < (sizeof (long_option_aliases) /
    sizeof (long_option_aliases[0]));
    ++c)
  long_options[i++] = long_option_aliases[c];
long_options[i].name = 0;

/* Non-option argument. It might be a variable definition. */
static void
handle_non_switch_argument (const char *arg, int env)
{
  struct variable *v;

  if (arg[0] == '-' && arg[1] == '\0')
    /* Ignore plain '-' for compatibility. */
    return;

  #ifdef VMS
  {
    /* VMS DCL quoting can result in foo="bar baz" showing up here.
    Need to remove the double quotes from the value. */
    char * eq_ptr;
    */
char * new_arg;
eq_ptr = strchr (arg, '=');
if ((eq_ptr != NULL) && (eq_ptr[1] == ' '))
{
    int len;
    int seg1;
    int seg2;
    len = strlen(arg);
    new_arg = alloca(len);
    seg1 = eq_ptr - arg + 1;
    strncpy(new_arg, arg, (seg1));
    seg2 = len - seg1 - 1;
    strncpy(&new_arg[seg1], &eq_ptr[2], seg2);
    new_arg[seg1 + seg2] = 0;
    if (new_arg[seg1 + seg2 - 1] == ' ')
    new_arg[seg1 + seg2 - 1] = 0;
    arg = new_arg;
}
#endif
v = try_variable_definition (0, arg, o_command, 0);
if (v != 0)
{
    /* It is indeed a variable definition. If we don't already have this
    one, record a pointer to the variable for later use in
    define_makeflags. */
    struct command_variable *cv;

    for (cv = command_variables; cv != 0; cv = cv->next)
        if (cv->variable == v)
            break;

    if (! cv)
    {
        cv = xmalloc (sizeof (*cv));
        cv->variable = v;
        cv->next = command_variables;
        command_variables = cv;
    }
    else if (! env)
    {
        /* Not an option or variable definition; it must be a goal
        target! Enter it as a file and add it to the dep chain of
        goals. */
        struct file *f = enter_file (strcache_add (expand_command_line_file (arg)));
        f->cmd_target = 1;
if (goals == 0)
{
    goals = alloc_goaldep ();
    lastgoal = goals;
}
else
{
    lastgoal->next = alloc_goaldep ();
    lastgoal = lastgoal->next;
}

lastgoal->file = f;

/* Add this target name to the MAKECMDGOALS variable. */
struct variable *gv;
const char *value;

gv = lookup_variable (STRING_SIZE_TUPLE ("MAKECMDGOALS"));
if (gv == 0)
    value = f->name;
else
{
    /* Paste the old and new values together */
    unsigned int oldlen, newlen;
    char *vp;

    oldlen = strlen (gv->value);
    newlen = strlen (f->name);
    vp = alloca (oldlen + 1 + newlen + 1);
    memcpy (vp, gv->value, oldlen);
    vp[oldlen] = ' ';  
    memcpy (&vp[oldlen + 1], f->name, newlen + 1);
    value = vp;
}
#define_variable_cname ("MAKECMDGOALS", value, o_default, 0);

/* Print a nice usage method. */

static void
print_usage (int bad)
{
    const char *const *cpp;
    FILE *usageto;

if (print_version_flag)
    print_version ();

usageto = bad ? stderr : stdout;

fprintf (usageto, _("Usage: %s [options] [target] ...
"), program);

for (cpp = usage; *cpp; ++cpp)
    fputs (_(*cpp), usageto);

if (!remote_description || *remote_description == '\0')
    fprintf (usageto, _("This program built for %s\n"), make_host);
else
    fprintf (usageto, _("This program built for %s (%s)\n"),
             make_host, remote_description);

fprintf (usageto, _("Report bugs to <bug-make@gnu.org>\n"));
}

/* Decode switches from ARGC and ARGV. */
/* They came from the environment if ENV is nonzero. */

static void
decode_switches (int argc, const char **argv, int env)
{
    int bad = 0;
    register const struct command_switch *cs;
    register struct stringlist *sl;
    register int c;

    /* getopt does most of the parsing for us. */
    /* First, get its vectors set up. */

    init_switches ();

    /* Let getopt produce error messages for the command line, */
    /* but not for options from the environment. */
    opterr = !env;
    /* Reset getopt's state. */
    optind = 0;

    while (optind < argc)
    {
        const char *coptarg;

        /* Parse the next argument. */
        c = getopt_long (argc, (char*const*)argv, options, long_options, NULL);
        coptarg = optarg;
if (c == EOF)
#if End of arguments, or "--" marker seen. */
    break;
else if (c == 1)
    /* An argument not starting with a dash. */
    handle_non_switch_argument (coptarg, env);
else if (c == '?')
    /* Bad option. We will print a usage message and die later.
       But continue to parse the other options so the user can
       see all he did wrong. */
    bad = 1;
else
    for (cs = switches; cs->c != '\0'; ++cs)
        if (cs->c == c)
            { /* Whether or not we will actually do anything with
               this switch. We test this individually inside the
               switch below rather than just once outside it, so that
               options which are to be ignored still consume args. */
                int doit = !env || cs->env;

                switch (cs->type)
                { /*
            default:
                abort ();
            
            case ignore:
                break;
            
            case flag:
            case flag_off:
                if (doit)
                    *(int *) cs->value_ptr = cs->type == flag;
                break;
            
            case string:
            case strlist:
            case filename:
                if (!doit)
                    break;

                if (! coptarg)
                    coptarg = xstrdup (cs->noarg_value);
            else if (*coptarg == '\0')
                { /*
                    char opt[2] = "c";
                    const char *op = opt;
                    */

            }
if (short_option (cs->c))
    opt[0] = cs->c;
else
    op = cs->long_name;

error (NILF, strlen (op),
    "("_"the '%s%s' option requires a non-empty string argument")",
    short_option (cs->c) ? "-" : "--", op);
bad = 1;
break;
}

if (cs->type == string)
{
    char **val = (char **)cs->value_ptr;
    free (*val);
    *val = xstrdup (coptarg);
    break;
}

sl = *(struct stringlist **) cs->value_ptr;
if (sl == 0)
{
    sl = xmalloc (sizeof (struct stringlist));
    sl->max = 5;
    sl->idx = 0;
    sl->list = xmalloc (5 * sizeof (char *));
    *(struct stringlist **) cs->value_ptr = sl;
}
else if (sl->idx == sl->max - 1)
{
    sl->max += 5;
    /* MSVC erroneously warns without a cast here. */
    sl->list = xrealloc ((void *)sl->list,
        sl->max * sizeof (char *));
}
if (cs->type == filename)
    sl->list[sl->idx++] = expand_command_line_file (coptarg);
else
    sl->list[sl->idx++] = xstrdup (coptarg);
sl->list[sl->idx] = 0;
bekak;

case positive_int:
    /* See if we have an option argument; if we do require that
      it's all digits, not something like "10foo". */
    if (coptarg == 0 && argc > optind)
    {
const char *cp;
for (cp=argv[optind]; ISDIGIT (cp[0]); ++cp)
{
    if (cp[0] == '0')
        coptarg = argv[optind++];
}

if (!doit)
    break;

if (coptarg)
{
    int i = atoi (coptarg);
    const char *cp;

    /* Yes, I realize we're repeating this in some cases. */
    for (cp = coptarg; ISDIGIT (cp[0]); ++cp)
    {
        if (i < 1 || cp[0] != '0')
        {
            error (NILF, 0,
                _("the '-%c' option requires a positive integer argument"),
                cs->c);
            bad = 1;
        } else
        *(unsigned int *) cs->value_ptr = i;
    } else
    *(unsigned int *) cs->value_ptr = *(unsigned int *) cs->noarg_value;
    break;

#ifndef NO_FLOAT
    case floating:
        if (coptarg == 0 && optind < argc
            && (ISDIGIT (argv[optind][0]) || argv[optind][0] == '.'))
            coptarg = argv[optind++];

        if (doit)
            *(double *) cs->value_ptr = (coptarg != 0 ? atof (coptarg)
                : *(double *) cs->noarg_value);
        break;
#endif
/* We've found the switch. Stop looking. */
break;
}

/* There are no more options according to getting getopt, but there may
be some arguments left. Since we have asked for non-option arguments
to be returned in order, this only happens when there is a "--"
argument to prevent later arguments from being options. */
while (optind < argc)
handle_non_switch_argument (argv[optind++], env);

if (!env && (bad || print_usage_flag))
{
    print_usage (bad);
    die (bad ? MAKE_FAILURE : MAKE_SUCCESS);
}

/* If there are any options that need to be decoded do it now. */
decode_debug_flags ();
decode_output_sync_flags ();
}

/* Decode switches from environment variable ENVAR (which is LEN chars long).
We do this by chopping the value into a vector of words, prepending a
dash to the first word if it lacks one, and passing the vector to
decode_switches. */

static void
decode_env_switches (const char *envar, unsigned int len)
{
    char *varref = alloca (2 + len + 2);
    char *value, *p, *buf;
    int argc;
    const char **argv;

    /* Get the variable's value. */
    varref[0] = '$';
    varref[1] = '(';
    memcpy (&varref[2], envar, len);
    varref[2 + len] = ')';
    varref[2 + len + 1] = '\0';
    value = variable_expand (varref);

    /* Skip whitespace, and check for an empty value. */
    NEXT_TOKEN (value);
    len = strlen (value);
if (len == 0)
    return;

/* Allocate a vector that is definitely big enough. */
argv = alloca ((1 + len + 1) * sizeof (char *));

/* getopt will look at the arguments starting at ARGV[1].
   Prepend a spacer word. */
argv[0] = 0;
argc = 1;

/* We need a buffer to copy the value into while we split it into words
   and unquote it. Set up in case we need to prepend a dash later. */
buf = alloca (1 + len + 1);
buf[0] = '-';
p = buf + 1;
argv[argc] = p;
while (*value != '\0')
{
    if (*value == '\' && value[1] != '\0')
        ++value;                /* Skip the backslash. */
    else if (ISBLANK (*value))
    {
        /* End of the word. */
        *p++ = '\0';
        argv[++argc] = p;
        do
            ++value;
        while (ISBLANK (*value));
        continue;
    }
    *p++ = *value++;
}
*p++ = *value++;
*p = '\0';
argv[++argc] = 0;
assert (p < buf + len + 2);

if (argv[1][0] != '-' && strchr (argv[1], '=')) != 0)
/* The first word doesn't start with a dash and isn't a variable
   definition, so add a dash. */
    argv[1] = buf;

/* Parse those words. */
decode_switches (argc, argv, 1);

/* Quote the string IN so that it will be interpreted as a single word with
   no magic by decode_env_switches; also double dollar signs to avoid
variable expansion in make itself. Write the result into OUT, returning
the address of the next character to be written.
Allocating space for OUT twice the length of IN is always sufficient. */

static char *
quote_for_env (char *out, const char *in)
{
while (*in != '\0')
{
if (*in == '$')
*out++ = '$';
else if (ISBLANK (*in) || *in == '\')
*out++ = '\';
*out++ = *in++;
}
return out;
}

/* Define the MAKEFLAGS and MFLAGS variables to reflect the settings of the
command switches. Include options with args if ALL is nonzero.
Don't include options with the 'no_makefile' flag set if MAKEFILE. */

static struct variable *
define_makeflags (int all, int makefile)
{
const char ref[] = "$(MAKEOVERRIDES)";
const char posixref[] = "$(-*-command-variables-*-)");
const char evalref[] = "$(-*-eval-flags-*-)");
const struct command_switch *cs;
char *flagstring;
char *p;

/* We will construct a linked list of 'struct flag's describing
all the flags which need to go in MAKEFLAGS. Then, once we
know how many there are and their lengths, we can put them all
together in a string. */

struct flag
{
struct flag *next;
const struct command_switch *cs;
const char *arg;
};
struct flag *flags = 0;
struct flag *last = 0;
unsigned int flagslen = 0;
#define ADD_FLAG(ARG, LEN) \
do {
  struct flag *new = alloca (sizeof (struct flag));
  new->cs = cs;
  new->arg = (ARG);
  new->next = 0;
  if (! flags)
    flags = new;
  else
    last->next = new;
  last = new;
  if (new->arg == 0)
    /* Just a single flag letter: " -x" */
    flagslen += 3;
  else
    /* " -xfoo", plus space to escape "foo". */
    flagslen += 1 + 1 + 1 + (3 * (LEN));
  if (!short_option (cs->c))
    /* This switch has no single-letter version, so we use the long. */
    flagslen += 2 + strlen (cs->long_name);
} while (0)

for (cs = switches; cs->c != '\0'; ++cs)
  if (cs->toenv && (!makefile || !cs->no_makefile))
    switch (cs->type)
      {
  case ignore:
    break;
  case flag:
  case flag_off:
    if ((!* (int *) cs->value_ptr) == (cs->type == flag_off)
      && (cs->default_value == 0
      || *(int *) cs->value_ptr != *(int *) cs->default_value))
      ADD_FLAG (0, 0);
    break;
  case positive_int:
    if (all)
      {
        if ((cs->default_value != 0
      || (* (unsigned int *) cs->value_ptr
      == *(unsigned int *) cs->default_value)))
      break;
        else if (cs->noarg_value != 0
      || (* (unsigned int *) cs->value_ptr ==
      *(unsigned int *) cs->noarg_value))
      ADD_FLAG ("", 0); /* Optional value omitted; see below. */
      else

{ char *buf = alloca (30);
  sprintf (buf, "%u", *(unsigned int *) cs->value_ptr);
  ADD_FLAG (buf, strlen (buf));
}

break;

#ifndef NO_FLOAT
  case floating:
    if (all)
    {
      if (cs->default_value != 0 && *(double *) cs->value_ptr
          == *(double *) cs->default_value)
        break;
      else if (cs->noarg_value != 0 && *(double *) cs->value_ptr
               == *(double *) cs->noarg_value)
        ADD_FLAG ("", 0); /* Optional value omitted; see below. */
      else
      {
        char *buf = alloca (100);
        sprintf (buf, "%g", *(double *) cs->value_ptr);
        ADD_FLAG (buf, strlen (buf));
      }
    }
    break;
#endif

  case string:
    if (all)
    {
      p = *((char **)cs->value_ptr);
      if (p)
        ADD_FLAG (p, strlen (p));
    }
    break;

case filename:
case strlist:
  case (all)
  {
    struct stringlist *sl = *(struct stringlist **) cs->value_ptr;
    if (sl != 0)
    {
      unsigned int i;
      for (i = 0; i < sl->idx; ++i)
ADD_FLAG (sl->list[i], strlen (sl->list[i]));

break;

default:
    abort ()
;
#
#define  ADD_FLAG

/* Four more for the possible " -- ", plus variable references. */
flagslen += 4 + CSTRLEN (posixref) + 1 + CSTRLEN (evalref) + 1;

/* Construct the value in FLAGSTRING. */
    We allocate enough space for a preceding dash and trailing null.

    flagstring = alloca (1 + flagslen + 1);
    memset (flagstring, '\0', 1 + flagslen + 1);
    p = flagstring;

/* Start with a dash, for MFLAGS. */
*p++ = '\';

/* Add simple options as a group. */
while (flags != 0 && !flags->arg && short_option (flags->cs->c))
{
    *p++ = flags->cs->c;
    flags = flags->next;
}

/* Now add more complex flags: ones with options and/or long names. */
while (flags)
{
    *p++ = ' '; 
    *p++ = '-';

    /* Add the flag letter or name to the string. */
    if (short_option (flags->cs->c))
        *p++ = flags->cs->c;
    else
        { /* Long options require a double-dash. */
            *p++ = '-';
            strcpy (p, flags->cs->long_name);
            p += strlen (p);
        }
    /* An omitted optional argument has an ARG of "". */
    if (flags->arg && flags->arg[0] != '\0')
if (!short_option (flags->cs->c))
/* Long options require '='. */
*p++ = '=';
p = quote_for_env (p, flags->arg);
}
flags = flags->next;

/* If no flags at all, get rid of the initial dash. */
if (p == &flagstring[1])
{
    flagstring[0] = '0';
p = flagstring;
}

/* Define MFLAGS before appending variable definitions. Omit an initial empty dash. Since MFLAGS is not parsed for flags, there is no reason to override any makefile redefinition. */
define_variable_cname ("MFLAGS",
    flagstring + (flagstring[0] == '-' && flagstring[1] == '=' ? 2 : 0),
o_env, 1);

/* Write a reference to -*-eval-flags-*-, which contains all the --eval flag options. */
if (eval_strings)
{
    *p++ = ' ';  
memcpy (p, evalref, CSTRLEN (evalref));
p += CSTRLEN (evalref);
}

if (all && command_variables)
{
    /* Write a reference to $(MAKEOVERRIDES), which contains all the command-line variable definitions. Separate the variables from the switches with a "--" arg. */

    strcpy (p, " -- ");
p += 4;

    /* Copy in the string. */
    if (posix_pedantic)
    {
        memcpy (p, posixref, CSTRLEN (posixref));
p += CSTRLEN (posixref);
    }
    else
memcpy (p, ref, CSTRLEN (ref));
p += CSTRLEN (ref);
}

/* If there is a leading dash, omit it. */
if (flagstring[0] == '-')
    ++flagstring;

/* This used to use o_env, but that lost when a makefile defined MAKEFLAGS.
Makefiles set MAKEFLAGS to add switches, but we still want to redefine
its value with the full set of switches. Then we used o_file, but that
lost when users added -e, causing a previous MAKEFLAGS env. var. to take
precedence over the new one. Of course, an override or command
definition will still take precedence. */
return define_variable_cname ("MAKEFLAGS", flagstring,
    env_overrides ? o_env_override : o_file, 1);
}

/* Print version information. */

static void
print_version (void)
{
    static int printed_version = 0;

    const char *precede = print_data_base_flag ? "# " : "";

    if (printed_version)
        /* Do it only once. */
        return;

    printf ("%sGNU Make %s\n", precede, version_string);

    if (!remote_description || *remote_description == '\0')
        printf (_("%sBuilt for %s\n"), precede, make_host);
    else
        printf (_("%sBuilt for %s (%s)\n"),
            precede, make_host, remote_description);

    /* Print this untranslated. The coding standards recommend translating the
    (C) to the copyright symbol, but this string is going to change every
    year, and none of the rest of it should be translated (including the
    word "Copyright"), so it hardly seems worth it. */

    printf (_("%sCopyright (C) 1988-2016 Free Software Foundation, Inc.\n"),
        precede);
printf (_("%sLicense GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>
%sThis is free software: you are free to change and redistribute it.
%sThere is NO WARRANTY, to the extent permitted by law.
"),
    precede, precede, precede);

printed_version = 1;

/* Flush stdout so the user doesn't have to wait to see the 
   version information while make thinks about things. */
fflush (stdout);
}

/* Print a bunch of information about this and that. */

static void
print_data_base (void)
{
  time_t when = time ((time_t *) 0);

  print_version ();

  printf (_("# Make data base, printed on %s"), ctime (&when));

  print_variable_data_base ();
  print_dir_data_base ();
  print_rule_data_base ();
  print_file_data_base ();
  print_vpath_data_base ();
  strcache_print_stats ("#");

  when = time ((time_t *) 0);
  printf (_("# Finished Make data base on %s\n"), ctime (&when));
}

static void
clean_jobserver (int status)
{
/* Sanity: have we written all our jobserver tokens back? If our 
   exit status is 2 that means some kind of syntax error; we might not 
   have written all our tokens so do that now. If tokens are left 
   after any other error code, that's bad. */

  if (jobserver_enabled() && jobserver_tokens)
    {
      if (status != 2)
        ON (error, NILF,
"INTERNAL: Exiting with %u jobserver tokens (should be 0)!", 
...
jetserver_tokens);
else
  /* Don't write back the "free" token */
  while (--jetserver_tokens)
    jetserver_release (0);
}

/* Sanity: If we're the master, were all the tokens written back? */

if (master_job_slots)
{
  /* We didn't write one for ourself, so start at 1. */
  unsigned int tokens = 1 + jetserver_acquire_all ();

  if (tokens != master_job_slots)
    ONN (error, NILF,
        "INTERNAL: Exiting with %u jobserver tokens available; should be %u!",
        tokens, master_job_slots);

    reset_jobserver ();
}

/* Exit with STATUS, cleaning up as necessary. */

void
die (int status)
{
  static char dying = 0;

  if (!dying)
  {
    int err;

    dying = 1;

    if (print_version_flag)
      print_version ();

    /* Wait for children to die. */
    err = (status != 0);
    while (job_slots_used > 0)
      reap_children (1, err);

    /* Let the remote job module clean up its state. */
    remote_cleanup ();
}
/* Remove the intermediate files. */
remove_intermediates (0);

if (print_data_base_flag)
    print_data_base (0);

if (verify_flag)
    verify_file_data_base ();

clean_jobserver (status);

if (output_context)
{
    /* die() might be called in a recipe output context due to an
       $(error ...) function. */
    output_close (output_context);

    if (output_context != &make_sync)
        output_close (&make_sync);

    OUTPUT_UNSET (0);
}

output_close (NULL);

/* Try to move back to the original directory. This is essential on
   MS-DOS (where there is really only one process), and on Unix it
   puts core files in the original directory instead of the -C
   directory. Must wait until after remove_intermediates(), or unlinks
   of relative pathnames fail. */
if (directory_before_chdir != 0)
{
    /* If it fails we don't care: shut up GCC. */
    int _x UNUSED;
    _x = chdir (directory_before_chdir);
}

exit (status);
}
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1.138 xz 5.2.4 r0
1.138.1 Available under license:

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

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- liblzma is in the public domain.

- xz, xzdec, and lzmadec command line tools are in the public domain unless GNU getopt_long had to be compiled and linked in from the lib directory. The getopt_long code is under GNU LGPLv2.1+.

- The scripts to grep, diff, and view compressed files have been adapted from gzip. These scripts and their documentation are under GNU GPLv2+.

- All the documentation in the doc directory and most of the

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1.140 acl 2.2.52 r0

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1.145 python3-pycparser 2.18 r0

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pycparser -- A C parser in Python

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1.146 ccid 1.4.24 r0

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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_nicstart() 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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Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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Version 3, 29 June 2007

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1.163 python 2.7.16 r1

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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

Before using, initialize the state by using init_genrand(seed)
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Sockets
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
   http://www.ietf.org/rfc/rfc1321.txt
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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Fixed typo in header comment (ansi2knr rather than md5).
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

XML Remote Procedure Calls

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

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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry
br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
%lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
switch i32 undef, label %exit [ i32 1, label %sw.bb.i i32 2, label %sw.bb3.i ]
}

sw.bb.i: ; preds = %while.body
unreachable

sw.bb3.i: ; preds = %while.body
unreachable

exit: ; preds = %while.body
switch i32 undef, label %exit.2 [ i32 1, label %sw.bb.i17

i32 2, label %sw.bb3.i20
]

sw.bb.i17:       ; preds = %.exit
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20:      ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2:          ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end:       ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }

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<tr>
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; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
  ; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
  BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246

  CF246:
  ; preds = %CF246, %BB
  %SI163 = select i1 %Cmp56, i8 %L34, i8 undef
  br i1 undef, label %CF246, label %CF248

  CF248:
  ; preds = %CF248, %CF246
  store i8 %SI163, i8* %0

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add_ildb_library(ildbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

LINK_LIBS
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
  ; First, extend each i32 to i64
  ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
  ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

  ; Next, convert each to double.
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
  ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
  ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
  ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
  ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
  ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
  ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
  ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

  ; CHECK: ret
  %flt = sitofp <16 x i32> %in to <16 x double>
  %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
  ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
  ; CHECK-LABEL: test_sitofp_fixed_shortish:

  ; CHECK-DAG: scvtf.2d v0, v0
  ; CHECK-DAG: scvtf.2d v1, v1

  ; CHECK: ret
  %flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}
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; RUN: ltc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}
; CHECK-LABEL: TestSelect:
; CHECK        movaps 16(%rsp), %xmm1
; CHECK-NEXT   callq __subtf3
; CHECK-NEXT   testl %ebx, %ebx
; CHECK-NEXT # %bb.1:
; CHECK-NEXT   movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT   addq $32, %rsp
; CHECK-NEXT   popq %rbx
define fp128 @TestFabs(fp128 %a) {
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000008000000000000000, %mul
    ret fp128 %res
}

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1.165 nfs-utils 2.3.1 r0

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1.175 python3-attrs 18.1.0 r0
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1.176 lttng-ust 2.10.3 r0

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 */

#ifndef _LTTNG_UST_CTL_PRIVATE_H
#define _LTTNG_UST_CTL_PRIVATE_H

#include <lttng/ust-ctl.h>

/*
 * Map channel lttng_ust_shm_handle and add streams. Typically performed
 * by the application to map the objects into its memory space.
 */
struct lttng_ust_shm_handle *
ustctl_map_channel(struct lttng_ust_object_data *chan_data);
int ustctl_add_stream(struct lttng_ust_shm_handle *lttng_ust_shm_handle,
struct lttng_ust_object_data *stream_data);
/*
 * Note: the lttng_ust_object_data from which the lttng_ust_shm_handle
 * is derived can only be released after unmapping the handle.
 */
void ustctl_unmap_channel(struct lttng_ust_shm_handle *lttng_ust_shm_handle);

#endif /* _LTTNG_UST_CTL_PRIVATE_H */

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1.185 python3-pyudev 0.21.0 r0
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1.187 grpc 1.14.1 r0

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1.188 gnulib 2017-08-20.18 r0
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Files:
tests/test-getcwd-lgpl.c
tests/signature.h
tests/macros.h

Depends-on:

configure.ac:

Makefile.am:
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cHECK_PROGRAMS += test-getcwd-lgpl
test_getcwd_lgpl_LDADD = $(LDADD) $(LIBINTL)

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Description:
realpath, canonical_file_name: Provide canonical absolute file name

Files:
lib/canonicalize-lgpl.c
m4/canonicalize.m4
m4/double-slash-root.m4

Depends-on:
extensions
stdlib
nocrash
alloca-opt [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
errno [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
lstat [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
malloca [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
memmove [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
configure.ac:

gl_CANONICALIZE_LGPL
if test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1; then
  AC_LIBOBJ([canonicalize-lgpl])
fi

gl_MODULE_INDICATOR([canonicalize-lgpl])
gl_STDLIB_MODULE_INDICATOR([canonicalize_file_name])
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lib/relocatable.c
lib/relocatable.valgrind
m4/relocatable-lib.m4

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strdup

configure.ac:
gl_RELOCATABLE_LIBRARY
if test SRELOCATABLE = yes; then
   AC_LIBOBJ([relocatable])
fi

Makefile.am:
DEFS += -DNO_XMALLOC

Include:
"relocatable.h"

License:
LGPLv2+

Maintainer:
Ben Pfaff
Please email the following information to assign@gnu.org, and we will
send you the assignment form that covers the changes you have already
written. That form will cover subsequent corrections to those
changes, but it will not cover other unrelated future changes to the
same program.

Please use your full legal name (in ASCII characters) as the subject line of the message.
---------------------------------------------------------------------
REQUEST: SEND FORM FOR CHANGES ALREADY MADE

[What is the name of the program or package you're contributing to?]

[Did you copy any files or text written by someone else in these changes?
Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own
your changes? Do you attend a school which might make such a claim?]

[For the copyright registration, what country are you a citizen of?]

[What year were you born?]
[Which files have you changed so far, and which new files have you written so far?]

Description:
Locating a program in PATH (LGPLed version).

Files:
lib/findprog.h
lib/findprog.c
lib/findprog-lgpl.c
m4/findprog.m4
m4/eaccess.m4

Depends-on:
stdbool
strdup
concat-filename
unistd

configure.ac:
gl_FINDPROG
gl_MODULE_INDICATOR([findprog-lgpl])

Makefile.am:
lib_SOURCES += findprog.h findprog.c

Include:
"findprog.h"

License:
LGPLv2+

Maintainer:
all
@c The GNU General Public License.
@center Version 2, June 1991

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

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You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

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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.)
@end enumerate

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@end enumerate

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@end smallexample

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

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

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Gnomovision version 69, Copyright (C) @var{year} @var{name of author}
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.
@end smallexample

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

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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consider it more useful to permit linking proprietary applications with the
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Public License instead of this License.
Files:

tests/test-update-copyright.sh

Depends-on:

configure.ac:
abs_aux_dir=`cd "$ac_aux_dir"; pwd`
AC_SUBST([abs_aux_dir])

Makefile.am:
TESTS += test-update-copyright.sh
TESTS_ENVIRONMENT += abs_aux_dir="$abs_aux_dir"

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Version 2.1, February 1999

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it in new free programs; and that you are informed that you can do
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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
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Open Source Used In XE-SDK 17.3 17.3-3.2.2 2523
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a) The modified work must itself be a software library.

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, 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
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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
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
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However, linking a "work that uses the Library" with the Library
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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
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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.

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If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
Please email the following information to fsf-records@gnu.org, and we
will send you the assignment form that covers your program.

Please use your full legal name (in ASCII characters) as the subject
line of the message.

[What is the name of the program or package you're contributing?]

[Will this become part of a larger GNU package? If so, what package?]

[Did you copy any files or text written by someone else into the
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Description:
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Files:
doc/gpl-3.0.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all

Files:
tests/test-canonicalize-lgpl.c
tests/signature.h
tests/null-ptr.h
tests/macros.h

Depends-on:
ignore-value
same_inode
symlink

configure.ac:

Makefile.am:
TESTS += test-canonicalize-lgpl
cHECK_PROGRAMS += test-canonicalize-lgpl

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Version 3, 29 June 2007

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Description:
Update an FSF copyright year list to include the current year.

Files:
build-aux/update-copyright
Depends-on:

configure.ac:

Makefile.am:

Include:

License:
GPLed build tool

Maintainer:
Jim Meyering

Description:
Extract specific portions of filenames.

Files:
lib/dirname.h
lib/dirname-lgpl.c
lib/basename-lgpl.c
lib/stripslash.c
m4/dirname.m4

Depends-on:
dosname
double-slash-root
malloc-posix
stdbool

configure.ac:
  gl_DIRNAME_LGPL

Makefile.am:
lib_SOURCES += dirname-lgpl.c basename-lgpl.c stripslash.c

Include:
"dirname.h"

License:
LGPLv2+

Maintainer:
Jim Meyering, Eric Blake

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Files:

doc/gpl-2.0.texi

Depends-on:

configure.ac:
Makefile.am:

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Description:
  Concatenate two arbitrary file names.

Files:
  lib/filenamecat.h
  lib/filenamecat-lGPL.c
  m4/filenamecat.m4

Depends-on:
  dirname-lGPL

configure.ac:
  gl_FILE_NAME_CONCAT_LGPL

Makefile.am:
  lib_SOURCES += filenamecat-lGPL.c

Include:
  "filenamecat.h"

License:
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Maintainer:
  Jim Meyering

Description:
  Ensure getcwd(NULL, 0) returns a buffer allocated by the malloc() function.

Files:
  lib/getcwd-lGPL.c
  m4/getcwd.m4

Depends-on:
  unistd
  strdup       [test $REPLACE_GETCWD = 1]

configure.ac:
  gl_FUNC_GETCWD_LGPL
if test $REPLACE_GETCWD = 1; then
  AC_LIBOBJ([getcwd-lgpl])
fi

gl_UNISTD_MODULE_INDICATOR([getcwd])

Makefile.am:

Include:
  <unistd.h>

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Description:
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Files:
  doc/lgpl-2.1.texi

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 *interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 *and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 *loss of link, and correctly re-enable PHY when link is
 *re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 */
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb’s passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
    * combined, allow nicstar_free_rx_skb to be called to
    * recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
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*
*
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*
* M. Welsh, 6 July 1996
*
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1.195 rapidjson 1.0.2 r0

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1.196 libgcc 8.2.0 r0

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

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

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

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

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That's all there is to it!
GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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to permit their use in free software.

#!/usr/bin/python
#
# Copyright (C) 2013-2018 Free Software Foundation, Inc.
#
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# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
import os
import re
import sys
import time
import subprocess

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

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

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

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

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

            # Skip auto- and libtool-related files
            'LICENSE.am',
            'configure',
            'configure.ac',
            'Makefile.am',
            'config.status',
            'install-sh',
            'aclocal',
            'aclocal-m4',
            'libtool',
        ])

        self.own_files |= set([
            # Files we added.
            'update-copyright.py',
            'update-copyright.sh',
            'update-copyright.cmake',
            'update-copyright.1',
            'update-copyright.8',
        ])
'aclocal.m4',
'compile',
'config.guess',
'config.sub',
'depcomp',
'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',
'appender_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 ('	')
    return None

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

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

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

return False

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

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

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

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

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

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

        # 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+and\s+*\s+*name')

        # Matches a full copyright notice:
        self.copyright_re = re.compile (}
# 1: 'Copyright (C)', etc.
'\([Cc]\)opyright\n\([Cc]\)opyrights+\([Cc]\)\n\([Cc]\)opyrights+%\n\([Cc]\)opyrights+%copy;\n\([Cc]\)opyrights+@copyright\{\}\ncopyright = u''
[@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 + '$\?\s?' + name + '+\s+\?\s?)$)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

holder = match.group(4)

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

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

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

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

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

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

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

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

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

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

return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    mode = None
    with open(pathname, 'r') as file:
        prev = None
        mode = os.fstat(file.fileno()).st_mode
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright(dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                    elif self.other_copyright_re.search(line):
                        self.errors.report(pathname,
                                           'unrecognised copyright: %s'
                                           % line.strip())
                lines.append(line)
                line = next_line
# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
    os.fchmod (file.fileno(), mode)
if self.use_quilt:
    subprocess.call (["quilt", 'add', pathname])
    os.rename (tmp_pathname, pathname)

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

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

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

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

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

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

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

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```python
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 ('nDirectories:"

    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + 'n'
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

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

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

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

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

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

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

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

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

        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
            ])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
            ])

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

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

        self.fossilised_files |= set ([}
# Old news won't be updated.
'ONEW',
})

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

        self.skip_extensions |= set (['
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
            ])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        # Similarly params/README.
        if filename == 'README' and os.path.basename (dir) == 'params':
            return True
        if filename == 'pdt_5.f03' and os.path.basename (dir) == 'gfortran.dg':
            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_fsfs = 'Free Software Foundation, Inc.'
self.add_package_author('Free Software Foundation', canon_fsfs)
self.add_package_author('Free Software Foundation.', canon_fsfs)
self.add_package_author('Free Software Foundation Inc.', canon_fsfs)
self.add_package_author('Free Software Foundation, Inc', canon_fsfs)
self.add_package_author('The Free Software Foundation', canon_fsfs)
self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('Software Foundation, Inc.', canon_fsf)

self.add_external_author('ARM')
self.add_external_author('AdaCore')
self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author('Cavium Networks.')
self.add_external_author('Faraday Technology Corp.')
self.add_external_author('Florida State University')
self.add_external_author('Greg Colvin and Beman Dawes.')
self.add_external_author('Hewlett-Packard Company')
self.add_external_author('Intel Corporation')
self.add_external_author('Information Technology Industry Council.')
self.add_external_author('James Theiler, Brian Gough')
self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author('National Research Council of Canada.')
self.add_external_author('NVIDIA Corporation')
self.add_external_author('Peter Dimov and Multi Media Ltd.')
self.add_external_author('Peter Dimov')
self.add_external_author('Pipeline Associates, Inc.')
self.add_external_author('Regents of the University of California.')
self.add_external_author('Silicon Graphics Computer Systems, Inc.')
self.add_external_author('Stephen L. Moshier')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Go Authors.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine(CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnatools')
        self.add_dir('gotools')
        self.add_dir('include')
        # intl is imported from upstream.
        self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcc1')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
# libglo is imported from upstream.
self.add_dir('libgomp')
self.add_dir('libhsail-rt')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]

GCCCmdLine().main()
Version 3, 29 June 2007

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<bridgehead xml:id="SourceCode" renderas="sect1">
</bridgehead>
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</listitem>

<listitem>

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

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

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

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

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Ty Coon, President of Vice

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 Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)

 Standard preamble:

 Set up some character translations and predefined strings. \*(-- will give an unbreakable dash, \*(PI will give pi, \*(L" will give a left double quote, and \*(R" will give a right double quote. \*(C+ will give a nicer C++. Capital omega is used to do unbreakable dashes and therefore won't be available. \*(C" and \*(C' expand to `` in nroff, nothing in troff, for use with C<>.

 tr \*(W-
 ds C+ C\v'.1\v'h'-1p'\s-2+\h'-1p'+\s0\v'.1\v'h'-1p'
 .ie n \{
  . ds -- \*(W-
  . ds PI pi
  . if (\n(H=4u)&(1m=24u) .ds -- \*(W\h'-12u\l\W\h'-12u\l" diablo 10 pitch
  . if (\n(H=4u)&(1m=20u) .ds -- \*(W\h'-12u\l\W\h'-8u\l" diablo 12 pitch
Escape single quotes in literal strings from groff's Unicode transform.

If the F register is >0, we'll generate index entries on stderr for
	titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
	entries marked with X<> in POD. Of course, you'll have to process the
	output yourself in some meaningful fashion.

Avoid warning from groff about undefined register 'F'.

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
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produce the work, or an object code interpreter used to run it.

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the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
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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)),
  assemble_name ((FILE), (NAME)),
  fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
 to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
( fputs (".lcomm ", (FILE)),
  assemble_name ((FILE), (NAME)),
  fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#if defined HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
( fputs (".lcomm ", (FILE)),
  assemble_name ((FILE), (NAME)),
  fprintf ((FILE), ",%u,%u\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

<simpara>Version 1.3, 3 November 2008</simpara>

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1.200 screen 4.6.2 r0
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1.205 go-systemd
4+gitb4a58d95188dd092ae20072bac14cece0e
67c388 r0

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1.206 python-setuptools 41.6.0 r0

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1.211 python-pycparser 2.18 r0

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1.212 python3-asn1crypto 0.24.0 r0

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1.213 python-enum 1.1.6 r0

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1.214 sg3-utils 1.42 r0

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Douglas Gilbert
10th April 2012

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1.217 cantarell-fonts 0.0.25 r0

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StartChar: copyright
Encoding: 169 169 102
GlifName: copyright
Width: 869
Flags: HMW
LayerCount: 2
Back
SplineSet
548 524 m 2
564 517 l 1
537 439 l 1
518 446 l 1
495 454 473 458 449 458 c 0
371 458 351 408 351 353 c 0
351 294 238 455 238 c 0
475 238 495 242 515 249 c 2
533 255 l 1
561 179 l 1
543 172 l 2
509 159 474 152 437 152 c 0
355 152 255 195 255 343 c 0
255 496 355 547 442 547 c 0
479 547 515 539 548 524 c 2
430 602 m 0
284 602 171 484 171 347 c 0
171 210 284 93 430 93 c 0
576 93 688 210 688 347 c 0
688 484 576 602 430 602 c 0
792 347 m 3
792 155 634 -10 430 -10 c 3
226 -10 67 154 67 347 c 3
67 536 223 706 430 706 c 3
634 706 792 539 792 347 c 3
EndSplineSet
Fore
SplineSet
784 334 m 259
784 129 638 -10 432 -10 c 3
229 -10 85 130 85 334 c 259
85 537 228 678 432 678 c 3
638 678 784 540 784 334 c 259
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Pooja Saxena <anexasajoop@gmail.com>
Valek Filippov <frob@gnome.org>
StartChar: copyright
Encoding: 169 169 102
GlfName: copyright
Width: 862
Flags: HMW
LayerCount: 2
Back
SplineSet
441 156 m 0
335 156 273 218 273 327 c 0
273 382 287 427 315 462 c 0
344 498 390 515 452 515 c 0
480 515 510 508 541 494 c 1
526 452 l 1
1.218 libuv 1.20.3 r0

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uv__io_t event_watcher;  

#define UV_IO_PRIVATE_PLATFORM_FIELDS  
int rcount;  
int wcount;  

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

1.219 python-cryptography 2.3 r0
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1.221 python-setuptools 40.0.0 r0

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1.222 dbus-glib 0.110 r0

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1.224 python3-idna 2.7 r0

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1.225 log-rotate 3.14.0 r0

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1.226 python-six 1.11.0 r0

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1.229 rrdtool 1.7.0 r0

1.230 iperf 3.6 r0

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1.231 python-pip 18.0 r0

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1.232 libatomic-ops 7.6.8 r0

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
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* 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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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout--------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux
<removed>2 4096 20479 16384 8M a5 FreeBSD

-------------------
Create default BSD
2e1cee529cb59e9341afe0443f196a1 bsd.img

---layout--------
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

Slice Start   End Sectors   Size Type   Fsize Bsize Cpg  
c  4096  20479    16384   8M unused    0     0   0  
d   0  16064    16065   7.9M unused    0     0   0  

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------
Welcome to fdisk <removed>.  
Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors  
Geometry: 255 heads, 63 sectors/track, 1 cylinders  
Units: sectors of 1 * 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disklabel type: bsd  
partitions: 4

Slice Start   End Sectors   Size Type   Fsize Bsize Cpg  
a  4096   6144    2049   1M 4.2BSD    0     0   0  
c  4096  20479    16384   8M unused    0     0   0  
d   0  16064    16065   7.9M unused    0     0   0  

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

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

Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.
Command (m for help): Entering nested BSD disklabel.

Command (m for help):

0 unused  5 4.1BSD  9 4.4LFS d boot
1 swap  6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
4 System V

Command (m for help):

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 */

1.235 numactl
2.0.12+gitAUTOINC+841253d131 r0
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profs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    Name string `json:"name,omitempty"
    URL string `json:"url,omitempty"
}

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Gocheck - A rich testing framework for Go

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1.240 python3-cffi 1.11.5 r0

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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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party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
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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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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but may differ in detail to address new problems or concerns.

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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.

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

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

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

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

That's all there is to it!

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Version 3, 29 June 2007

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

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

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

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

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

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

TERMS AND CONDITIONS

0. Definitions.

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

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

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

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

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

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

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

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


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

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

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

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

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

The Corresponding Source for a work in source code form is that same work.
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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

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

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

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You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any
You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

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

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

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

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

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

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

6. Conveying Non-Source Forms.

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

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

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

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

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

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

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.
A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

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

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

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

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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1.248 wget 1.19.5 r0

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#include "dirname.h"
#include "url.h"

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <time.h>
#include <tmpdir.h>
#include <sha1.h>
#include <base32.h>
#include <unistd.h>
#ifdef HAVE_LIBZ
#include <zlib.h>
#endif

#ifdef HAVE_LIBUUID
#include <uuid/uuid.h>
#elif HAVE_UUID_CREATE
#include <uuid.h>
#endif

#include "warc.h"
#include "exits.h"

#ifdef WINDOWS
/* we need this on Windows to have O_TEMPORARY defined */
#include <fcntl.h>
#include <rpc.h>
#endif

#ifdef O_TEMPORARY
#define O_TEMPORARY 0
#endif
#endif

#include "warc.h"
#include "exits.h"

/* The log file (a temporary file that contains a copy
   of the wget log). */
static FILE *warc_log_fp;

/* The manifest file (a temporary file that contains the
   warcinfo uuid of every file in this crawl). */
static FILE *warc_manifest_fp;

/* The current WARC file (or NULL, if WARC is disabled). */
static FILE *warc_current_file;

#ifdef HAVE_LIBZ
/* The gzip stream for the current WARC file
   (or NULL, if WARC or gzip is disabled). */
static gzFile warc_current_gzfile;

/* The offset of the current gzip record in the WARC file. */
static off_t warc_current_gzfile_offset;

/* The uncompressed size (so far) of the current record. */
static off_t warc_current_gzfile_uncompressed_size;
#endif

/* This is true until a warc_write_* method fails. */
static bool warc_write_ok;

/* The current CDX file (or NULL, if CDX is disabled). */
static FILE *warc_current_cdx_file;

/* The record id of the warcinfo record of the current WARC file. */
static char warc_current_warcinfo_uuid_str[48];

/* The file name of the current WARC file. */
static char *warc_current_filename;

/* The serial number of the current WARC file. This number is
   incremented each time a new file is opened and is used in the
   WARC file's filename. */
static int warc_current_file_number;

/* The table of CDX records, if deduplication is enabled. */
static struct hash_table *warc_cdx_dedup_table;
static bool warc_start_new_file (bool meta);

struct warc_cdx_record
{
    char *url;
    char *uuid;
    char digest[SHA1_DIGEST_SIZE];
};

static unsigned long
warc_hash_sha1_digest (const void *key)
{
    /* We just use some of the first bytes of the digest. */
    unsigned long v = 0;
    memcpy (&v, key, sizeof (unsigned long));
    return v;
}

static int
warc_cmp_sha1_digest (const void *digest1, const void *digest2)
{
    return !memcmp (digest1, digest2, SHA1_DIGEST_SIZE);
}

/* Writes SIZE bytes from BUFFER to the current WARC file,
   through gzwrite if compression is enabled.
   Returns the number of uncompressed bytes written. */
static size_t
warc_write_buffer (const char *buffer, size_t size)
{
    #ifdef HAVE_LIBZ
    if (warc_current_gzfile)
    {
        warc_current_gzfile_uncompressed_size += size;
        return gzwrite (warc_current_gzfile, buffer, size);
    }
    else
    #endif
    return fwrite (buffer, 1, size, warc_current_file);
}

/* Writes STR to the current WARC file.
   Returns false and set warc_write_ok to false if there
   is an error. */
static bool
warc_write_string (const char *str)
{
    size_t n;

    if (!warc_write_ok)
        return false;

    n = strlen (str);
    if (n != warc_write_buffer (str, n))
        warc_write_ok = false;

    return warc_write_ok;
}

#define EXTRA_GZIP_HEADER_SIZE 14
#define GZIP_STATIC_HEADER_SIZE 10
#define FLG_FEXTRA 0x04
#define OFF_FLG 3

/* Starts a new WARC record. Writes the version header.  
   If opt.warc_maxsize is set and the current file is becoming 
   too large, this will open a new WARC file.  
   
   If compression is enabled, this will start a new 
   gzip stream in the current WARC file. 
   
   Returns false and set warc_write_ok to false if there 
   is an error. */
static bool
warc_write_start_record (void)
{
    if (!warc_write_ok)
        return false;

    fflush (warc_current_file);
    if (opt.warc_maxsize > 0 && ftello (warc_current_file) >= opt.warc_maxsize)
        warc_start_new_file (false);

    #ifdef HAVE_LIBZ
    /* Start a GZIP stream, if required. */
    if (opt.warc_compression_enabled)
    {
        /* Record the starting offset of the new record. */
        warc_current_gzfile_offset = ftello (warc_current_file);

        /* Reserve space for the extra GZIP header field.
         */
    #endif

    /* */
In warc_write_end_record we will fill this space with information about the uncompressed and compressed size of the record. */

fseek (warc_current_file, EXTRA_GZIP_HEADER_SIZE, SEEK_CUR);
fflush (warc_current_file);

/* Start a new GZIP stream. */
warc_current_gzfile = gzopen (dup (fileno (warc_current_file)), "wb9");
warc_current_gzfile_uncompressed_size = 0;

if (warc_current_gzfile == NULL)
{
    logprintf (LOG_NOTQUIET,
"_("Error opening GZIP stream to WARC file\n")");
    warc_write_ok = false;
    return false;
}
#endif

warc_write_string ("WARC/1.0\n");
return warc_write_ok;
}

/* Writes a WARC header to the current WARC record. This method may be run after warc_write_start_record and before warc_write_block_from_file. */
static bool
warc_write_header (const char *name, const char *value)
{
    if (value)
    {
        warc_write_string (name);
        warc_write_string (": ");
        warc_write_string (value);
        warc_write_string ("\r\n");
    }
    return warc_write_ok;
}

/* Writes a WARC header with a URI as value to the current WARC record. This method may be run after warc_write_start_record and before warc_write_block_from_file. */
static bool
warc_write_header_uri (const char *name, const char *value)
{
    if (value)
    {

warc_write_string (name);
warc_write_string ("": <");
warc_write_string (value);
warc_write_string (">\n"");
}
return warc_write_ok;
}

/* Copies the contents of DATA_IN to the WARC record. 
   Adds a Content-Length header to the WARC record. 
   Run this method after warc_write_header, 
   then run warc_write_end_record. */
static bool
warc_write_block_from_file (FILE *data_in)
{
   /* Add the Content-Length header. */
   char content_length[MAX_INT_TO_STRING_LEN(off_t)];
   char buffer[BUFSIZ];
   size_t s;

   fseeko (data_in, 0L, SEEK_END);
   number_to_string (content_length, ftello (data_in));
   warc_write_header ("Content-Length", content_length);

   /* End of the WARC header section. */
   warc_write_string ("\n");

   if (fseeko (data_in, 0L, SEEK_SET) != 0)
      warc_write_ok = false;

   /* Copy the data in the file to the WARC record. */
   while (warc_write_ok && (s = fread (buffer, 1, BUFSIZ, data_in)) > 0)
   {
      if (warc_write_buffer (buffer, s) < s)
         warc_write_ok = false;
   }

   return warc_write_ok;
}

/* Run this method to close the current WARC record.

   If compression is enabled, this method closes the 
   current GZIP stream and fills the extra GZIP header 
   with the uncompressed and compressed length of the 
   record. */
static bool
warc_write_end_record (void)
```c
warc_write_buffer ("\n\n\n", 4);

#ifdef HAVE_LIBZ
    /* We start a new gzip stream for each record. */
    if (warc_write_ok && warc_current_gzfile)
    {
        char extra_header[EXTRA_GZIP_HEADER_SIZE];
        char static_header[GZIP_STATIC_HEADER_SIZE];
        off_t current_offset, uncompressed_size, compressed_size;
        size_t result;

        if (gzclose (warc_current_gzfile) != Z_OK)
        {
            warc_write_ok = false;
            return false;
        }

        fflush (warc_current_file);
        fseeko (warc_current_file, 0, SEEK_END);

        /* The WARC standard suggests that we add 'skip length' data in the
         * extra header field of the GZIP stream.
         * In warc_write_start_record we reserved space for this extra header.
         * This extra space starts at warc_current_gzfile_offset and fills
         * EXTRA_GZIP_HEADER_SIZE bytes. The static GZIP header starts at
         * warc_current_gzfile_offset + EXTRA_GZIP_HEADER_SIZE.
         * We need to do three things:
         * 1. Move the static GZIP header to warc_current_gzfile_offset;
         * 2. Set the FEXTRA flag in the GZIP header;
         * 3. Write the extra GZIP header after the static header, that is,
         *    starting at warc_current_gzfile_offset + GZIP_STATIC_HEADER_SIZE.
         */

        /* Calculate the uncompressed and compressed sizes. */
        current_offset = ftello (warc_current_file);
        uncompressed_size = current_offset - warc_current_gzfile_offset;
        compressed_size = warc_current_gzfile_uncompressed_size;

        /* Go back to the static GZIP header. */
        fseeko (warc_current_file, warc_current_gzfile_offset
                + EXTRA_GZIP_HEADER_SIZE, SEEK_SET);

        /* Read the header. */
        result = fread (static_header, 1, GZIP_STATIC_HEADER_SIZE,
                       warc_current_file);
```
if (result != GZIP_STATIC_HEADER_SIZE)
{
    warc_write_ok = false;
    return false;
}

/* Set the FEXTRA flag in the flags byte of the header. */
static_header[OFF_FLG] = static_header[OFF_FLG] | FLG_FEXTRA;

/* Write the header back to the file, but starting at
warc_current_gzfile_offset */
fseeko (warc_current_file, warc_current_gzfile_offset, SEEK_SET);
fwrite (static_header, 1, GZIP_STATIC_HEADER_SIZE, warc_current_file);

/* Prepare the extra GZIP header. */
/* XLEN, the length of the extra header fields. */
extra_header[0] = ((EXTRA_GZIP_HEADER_SIZE - 2) & 255);
extra_header[1] = ((EXTRA_GZIP_HEADER_SIZE - 2) >> 8) & 255;
/* The extra header field identifier for the WARC skip length. */
exstra_header[2] = 's';
exstra_header[3] = 'I';
/* The size of the field value (8 bytes). */
exstra_header[4] = (8 & 255);
exstra_header[5] = ((8 >> 8) & 255);
/* The size of the uncompressed record. */
exstra_header[6] = (uncompressed_size & 255);
exstra_header[7] = (uncompressed_size >> 8) & 255;
exstra_header[8] = (uncompressed_size >> 16) & 255;
exstra_header[9] = (uncompressed_size >> 24) & 255;
/* The size of the compressed record. */
exstra_header[10] = (compressed_size & 255);
exstra_header[12] = (compressed_size >> 16) & 255;
exstra_header[13] = (compressed_size >> 24) & 255;

/* Write the extra header after the static header. */
fseeko (warc_current_file, warc_current_gzfile_offset
+ GZIP_STATIC_HEADER_SIZE, SEEK_SET);
fwrite (extra_header, 1, EXTRA_GZIP_HEADER_SIZE, warc_current_file);

/* Done, move back to the end of the file. */
fflush (warc_current_file);
fseeko (warc_current_file, 0, SEEK_END);
}
#endif /* HAVE_LIBZ */

return warc_write_ok;
/* Writes the WARC-Date header for the given timestamp to
the current WARC record.
If timestamp is NULL, the current time will be used. */
static bool
warc_write_date_header (const char *timestamp)
{
    char current_timestamp[21];

    return warc_write_header("WARC-Date", timestamp ? timestamp:
                           warc_timestamp (current_timestamp, sizeof(current_timestamp)));
}

/* Writes the WARC-IP-Address header for the given IP to
the current WARC record. If IP is NULL, no header will
be written. */
static bool
warc_write_ip_header (const ip_address *ip)
{
    if (ip != NULL)
        return warc_write_header("WARC-IP-Address", print_address (ip));
    else
        return warc_write_ok;
}

/* warc_sha1_stream_with_payload is a modified copy of sha1_stream
from gnulib/sha1.c. This version calculates two digests in one go.

Compute SHA1 message digests for bytes read from STREAM. The
digest of the complete file will be written into the 16 bytes
beginning at RES_BLOCK.

If payload_offset >= 0, a second digest will be calculated of the
portion of the file starting at payload_offset and continuing to
the end of the file. The digest number will be written into the
16 bytes beginning ad RES_PAYLOAD. */
static int
warc_sha1_stream_with_payload (FILE *stream, void *res_block, void *res_payload,
                              off_t payload_offset)
{
    #define BLOCKSIZE 32768

    struct sha1_ctx ctx_block;
    struct sha1_ctx ctx_payload;
    off_t pos;
    off_t sum;
char *buffer = xmalloc (BLOCKSIZE + 72);

/* Initialize the computation context. */
sha1_init_ctx (&ctx_block);
if (payload_offset >= 0)
    sha1_init_ctx (&ctx_payload);

pos = 0;

/* Iterate over full file contents. */
while (1) {
    /* We read the file in blocks of BLOCKSIZE bytes. One call of the 
        computation function processes the whole buffer so that with the 
        next round of the loop another block can be read. */
    off_t n;
    sum = 0;

    /* Read block. Take care for partial reads. */
    while (1) {
        n = fread (buffer + sum, 1, BLOCKSIZE - sum, stream);

        sum += n;
        pos += n;

        if (sum == BLOCKSIZE)
            break;

        if (n == 0) {
            /* Check for the error flag IFF N == 0, so that we don't 
                exit the loop after a partial read due to e.g., EAGAIN 
                or EWOULDBLOCK. */
            if (ferror (stream))
                
            xfree (buffer);
            return 1;
        }
        goto process_partial_block;
    }

    /* We've read at least one byte, so ignore errors. But always 
        check for EOF, since feof may be true even though N > 0. 
        Otherwise, we could end up calling fread after EOF. */
    if (feof (stream))
        goto process_partial_block;

process_partial_block:

/* Initialize the computation context. */
sha1_init_ctx (&ctx_block);
if (payload_offset >= 0)
    sha1_init_ctx (&ctx_payload);

pos = 0;

/* Iterate over full file contents. */
while (1) {
    /* We read the file in blocks of BLOCKSIZE bytes. One call of the 
        computation function processes the whole buffer so that with the 
        next round of the loop another block can be read. */
    off_t n;
    sum = 0;

    /* Read block. Take care for partial reads. */
    while (1) {
        n = fread (buffer + sum, 1, BLOCKSIZE - sum, stream);

        sum += n;
        pos += n;

        if (sum == BLOCKSIZE)
            break;

        if (n == 0) {
            /* Check for the error flag IFF N == 0, so that we don't 
                exit the loop after a partial read due to e.g., EAGAIN 
                or EWOULDBLOCK. */
            if (ferror (stream))
                
            xfree (buffer);
            return 1;
        }
        goto process_partial_block;
    }

    /* We've read at least one byte, so ignore errors. But always 
        check for EOF, since feof may be true even though N > 0. 
        Otherwise, we could end up calling fread after EOF. */
    if (feof (stream))
        goto process_partial_block;
Process buffer with BLOCKSIZE bytes. Note that

```
/* Process buffer with BLOCKSIZE bytes. Note that
   BLOCKSIZE % 64 == 0 */
```

```
sha1_process_block (buffer, BLOCKSIZE, &ctx_block);
if (payload_offset >= 0 && payload_offset < pos)
{
  /* At least part of the buffer contains data from payload. */
  off_t start_of_payload = payload_offset - (pos - BLOCKSIZE);
  if (start_of_payload <= 0)
    /* All bytes in the buffer belong to the payload. */
    start_of_payload = 0;

  /* Process the payload part of the buffer. */
  Note: we can't use sha1_process_block here even if we
  process the complete buffer. Because the payload doesn't
  have to start with a full block, there may still be some
  bytes left from the previous buffer. Therefore, we need
  to continue with sha1_process_bytes. */
  sha1_process_bytes (buffer + start_of_payload,
                    BLOCKSIZE - start_of_payload, &ctx_payload);
}
}
```

```
/* Process any remaining bytes. */
if (sum > 0)
{
  sha1_process_bytes (buffer, sum, &ctx_block);
  if (payload_offset >= 0 && payload_offset < pos)
  {
    /* At least part of the buffer contains data from payload. */
    off_t start_of_payload = payload_offset - (pos - sum);
    if (start_of_payload <= 0)
      /* All bytes in the buffer belong to the payload. */
      start_of_payload = 0;

    /* Process the payload part of the buffer. */
    sha1_process_bytes (buffer + start_of_payload,
                        sum - start_of_payload, &ctx_payload);
  }
}
```

```
/* Construct result in desired memory. */
sha1_finish_ctx (&ctx_block, res_block);
if (payload_offset >= 0)
```
sha1_finish_ctx (&ctx_payload, res_payload);
xfree (buffer);
return 0;

#undef BLOCKSIZE
}

/* Converts the SHA1 digest to a base32-encoded string.
   "sha1:DIGEST0"  (Allocates a new string for the response.) */
static char *
warc_base32_sha1_digest (const char *sha1_digest, char *sha1_base32, size_t sha1_base32_size)
{
    if (sha1_base32_size >= BASE32_LENGTH(SHA1_DIGEST_SIZE) + 5 + 1)
    {
        memcpy (sha1_base32, "sha1:", 5);
        base32_encode (sha1_digest, SHA1_DIGEST_SIZE, sha1_base32 + 5, sha1_base32_size - 5);
    }
    else
        *sha1_base32 = 0;

    return sha1_base32;
}

/* Sets the digest headers of the record.
   This method will calculate the block digest and, if payload_offset >= 0,
   will also calculate the payload digest of the payload starting at the
   provided offset. */
static void
warc_write_digest_headers (FILE *file, long payload_offset)
{
    if (opt.warc_digests_enabled)
    {
        /* Calculate the block and payload digests. */
        char sha1_res_block[SHA1_DIGEST_SIZE];
        char sha1_res_payload[SHA1_DIGEST_SIZE];

        rewind (file);
        if (warc_sha1_stream_with_payload (file, sha1_res_block, sha1_res_payload, payload_offset) == 0)
        {
            char digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];

            warc_write_header ("WARC-Block-Digest",
                warc_base32_sha1_digest (sha1_res_block, digest, sizeof(digest)));

            if (payload_offset >= 0)
warc_write_header ("WARC-Payload-Digest",
    warc_base32_sha1_digest (sha1_res_payload, digest, sizeof(digest)));

}  
}  
}  

/* Fills timestamp with the current time and date. 
The UTC time is formatted following ISO 8601, as required 
for use in the WARC-Date header. 
The timestamp will be 21 characters long. */
char *
warc_timestamp (char *timestamp, size_t timestamp_size)
{
    time_t rawtime = time (NULL);
    struct tm * timeinfo = gmtime (&rawtime);

    if (strftime (timestamp, timestamp_size, "%Y-%m-%dT%H:%M:%SZ", timeinfo) == 0 && timestamp_size > 0)
        *timestamp = 0;

    return timestamp;
}

/* Fills urn_str with a UUID in the format required 
for the WARC-Record-Id header. 
The string will be 47 characters long. */
#if HAVE_LIBUUID
void
warc_uuid_str (char *urn_str)
{
    char uuid_str[37];
    uuid_t record_id;

    uuid_generate (record_id);
    uuid_unparse (record_id, uuid_str);
    sprintf (urn_str, "<urn:uuid:%s>", uuid_str);
}
#elif HAVE_UUID_CREATE
void
warc_uuid_str (char *urn_str)
{
    char *uuid_str;
    uuid_t record_id;

    uuid_generate (&record_id, NULL);
    uuid_to_string (&record_id, &uuid_str, NULL);
    uuid_create (&record_id, NULL);
    uuid_to_string (&record_id, &uuid_str, NULL);

    sprintf (urn_str, "<urn:uuid:%s>", uuid_str);
}
sprintf (urn_str, "<urn:uuid:%s>", uuid_str);
xfree (uuid_str);
}
#endif
#endif

typedef RPC_STATUS (RPC_ENTRY * UuidCreate_proc) (UUID *);
typedef RPC_STATUS (RPC_ENTRY * UuidToString_proc) (UUID *, unsigned char **);
typedef RPC_STATUS (RPC_ENTRY * RpcStringFree_proc) (unsigned char **);

static int
windows_uuid_str (char *urn_str)
{
    static UuidCreate_proc pfn_UuidCreate = NULL;
    static UuidToString_proc pfn_UuidToString = NULL;
    static RpcStringFree_proc pfn_RpcStringFree = NULL;
    static int rpc_uuid_avail = -1;

    /* Rpcrt4.dll is not available on older versions of Windows, so we
     * need to test its availability at run time. */
    if (rpc_uuid_avail == -1)
    {
        HMODULE hm_rpcrt4 = LoadLibrary ("Rpcrt4.dll");

        if (hm_rpcrt4)
        {
            pfn_UuidCreate =
                (UuidCreate_proc) GetProcAddress (hm_rpcrt4, "UuidCreate");
            pfn_UuidToString =
                (UuidToString_proc) GetProcAddress (hm_rpcrt4, "UuidToStringA");
            pfn_RpcStringFree =
                (RpcStringFree_proc) GetProcAddress (hm_rpcrt4, "RpcStringFreeA");
            if (pfn_UuidCreate && pfn_UuidToString && pfn_RpcStringFree)
                rpc_uuid_avail = 1;
            else
                rpc_uuid_avail = 0;
        }
        else
            rpc_uuid_avail = 0;
    }

    if (rpc_uuid_avail)
    {
        BYTE *uuid_str;
        UUID uuid;

        if (pfn_UuidCreate (&uuid) == RPC_S_OK)
if (pfn_UuidToString (&uuid, &uuid_str) == RPC_S_OK)
{
    sprintf (urn_str, "<urn:uuid:%s>", uuid_str);
    pfn_RpcStringFree (&uuid_str);
    return 1;
}
}
return 0;
#endif

/* Fills urn_str with a UUID based on random numbers in the format
required for the WARC-Record-Id header.
(See RFC 4122, UUID version 4.)

Note: this is a fallback method, it is much better to use the
methods provided by libuuid.

The string will be 47 characters long. */
void
warc_uuid_str (char *urn_str)
{
    /* RFC 4122, a version 4 UUID with only random numbers */

    unsigned char uuid_data[16];
    int i;

    #ifdef WINDOWS
    /* If the native method fails (expected on older Windows versions),
     use the fallback below. */
    if (windows_uuid_str (urn_str))
    return;
    #endif

    for (i=0; i<16; i++)
        uuid_data[i] = random_number (255);

    /* Set the four most significant bits (bits 12 through 15) of the
     * time_hi_and_version field to the 4-bit version number */
    uuid_data[6] = (uuid_data[6] & 0x0F) | 0x40;

    /* Set the two most significant bits (bits 6 and 7) of the
     * clock_seq_hi_and_reserved to zero and one, respectively. */
    uuid_data[8] = (uuid_data[8] & 0xBF) | 0x80;

    sprintf (urn_str,
        "<urn:uuid:%02x%02x%02x%02x-%02x%02x-%02x%02x%02x%02x%02x%02x%02x>",
        uuid_data[0], uuid_data[1], uuid_data[2], uuid_data[3], uuid_data[4],
        uuid_data[5], uuid_data[6], uuid_data[7], uuid_data[8], uuid_data[9],
        uuid_data[10], uuid_data[11], uuid_data[12], uuid_data[13],
        uuid_data[14], uuid_data[15],
    );
uuid_data[5], uuid_data[6], uuid_data[7], uuid_data[8], uuid_data[9],
uuid_data[10], uuid_data[11], uuid_data[12], uuid_data[13], uuid_data[14],
uuid_data[15]);
}
#endif

/* Write a warcinfo record to the current file.
  Updates warc_current_warcinfo_uuid_str. */
static bool
warc_write_warcinfo_record (const char *filename)
{
  FILE *warc_tmp;
  char timestamp[22];
  char *filename_basename;

  /* Write warc-info record as the first record of the file. */
  /* We add the record id of this info record to the other records in the
   file. */
  warc_uuid_str (warc_current_warcinfo_uuid_str);
  warc_timestamp (timestamp, sizeof(timestamp));

  filename_basename = base_name (filename);

  warc_write_start_record ();
  warc_write_header ("WARC-Type", "warcinfo");
  warc_write_header ("Content-Type", "application/warc-fields");
  warc_write_header ("WARC-Date", timestamp);
  warc_write_header ("WARC-Record-ID", warc_current_warcinfo_uuid_str);
  warc_write_header ("WARC-Filename", filename_basename);

  xfree (filename_basename);

  /* Create content. */
  warc_tmp = warc_tempfile ();
  if (warc_tmp == NULL)
  {
    return false;
  }

  fprintf (warc_tmp, "software: Wget/%s (%s)\n", version_string, OS_TYPE);
  fprintf (warc_tmp, "format: WARC File Format 1.0\n\n");
  fprintf (warc_tmp, "conformsTo: http://bibnum.bnf.fr/WARC/WARC_ISO_28500_version1_latestdraft.pdf\n\n");
  fprintf (warc_tmp, "robots: %s\n", (opt.use_robots ? "classic" : "off"));
  fprintf (warc_tmp, "wget-arguments: %s\n", program_argstring);

  /* Add the user headers, if any. */
  if (opt.warc_user_headers)
{  
  int i;
  for (i = 0; opt.warc_user_headers[i]; i++)
    fprintf (warc_tmp, "\%s\n", opt.warc_user_headers[i]);
}
  
fprintf (warc_tmp, "\n");

warc_write_digest_headers (warc_tmp, -1);
warc_write_block_from_file (warc_tmp);
warc_write_end_record ();

if (! warc_write_ok)
  logprintf (LOG_NOTQUIET, 
("Error writing warcinfo record to WARC file.\n");

fclose (warc_tmp);
return warc_write_ok;
}
/* Opens a new WARC file.
 If META is true, generates a filename ending with 'meta.warc.gz'.

This method will:
1. close the current WARC file (if there is one);
2. increment warc_current_file_number;
3. open a new WARC file;
4. write the initial warcinfo record.

Returns true on success, false otherwise.
*/
static bool
warc_start_new_file (bool meta)
{
  #ifdef __VMS
  # define WARC_GZ "warc-gz"
  #else /* def __VMS */
  # define WARC_GZ "warc.gz"
  #endif /* def __VMS [else] */

  #ifdef HAVE_LIBZ
    const char *extension = (opt.warc_compression_enabled ? WARC_GZ : "warc");
  #else
    const char *extension = "warc";
  #endif

  int base_filename_length;
  char *new_filename;

  if (opt.warc_filename == NULL)
return false;

if (warc_current_file != NULL)
    fclose (warc_current_file);

*warc_current_warcinfo_uuid_str = 0;
xfree (warc_current_filename);

warc_current_file_number++;

base_filename_length = strlen (opt.warc_filename);
/* filename format:  base + "," + 5 digit serial number + ",.warc.gz" */
new_filename = xmalloc (base_filename_length + 1 + 5 + 8 + 1);

warc_current_filename = new_filename;

/* If max size is enabled, we add a serial number to the file names. */
if (meta)
    sprintf (new_filename, "%s-meta.%s", opt.warc_filename, extension);
else if (opt.warc_maxsize > 0)
{
    sprintf (new_filename, "%s-%05d.%s", opt.warc_filename,
              warc_current_file_number, extension);
}
else
    sprintf (new_filename, "%s.%s", opt.warc_filename, extension);

logprintf (LOG_VERBOSE, _("Opening WARC file %s\n"), quote (new_filename));

/* Open the WARC file. */
warc_current_file = fopen (new_filename, "wb+");
if (warc_current_file == NULL)
{
    logprintf (LOG_NOTQUIET, _("Error opening WARC file %s\n"),
               quote (new_filename));
    return false;
}

if (! warc_write_warcinfo_record (new_filename))
    return false;

/* Add warcinfo uuid to manifest. */
if (warc_manifest_fp)
    fprintf (warc_manifest_fp, "%s\n", warc_current_warcinfo_uuid_str);

return true;
/* Opens the CDX file for output. */
static bool
warc_start_cdx_file (void)
{
    int filename_length = strlen (opt.warc_filename);
    char *cdx_filename = alloca (filename_length + 4 + 1);
    memcpy (cdx_filename, opt.warc_filename, filename_length);
    memcpy (cdx_filename + filename_length, ".cdx", 5);
    warc_current_cdx_file = fopen (cdx_filename, "a+");
    if (warc_current_cdx_file == NULL)
        return false;

    /* Print the CDX header.
    * 
    * a - original url
    * b - date
    * m - mime type
    * s - response code
    * k - new style checksum
    * r - redirect
    * M - meta tags
    * V - compressed arc file offset
    * g - file name
    * u - record-id
    */
    fprintf (warc_current_cdx_file, " CDX a b a m s k r M V g u\n");
    fflush (warc_current_cdx_file);

    return true;
}

#define CDX_FIELDSEP " \
"

/* Parse the CDX header and find the field numbers of the original url, 
checkum and record ID fields. */
static bool
warc_parse_cdx_header (char *lineptr, int *field_num_original_url, 
                        int *field_num_checksum, int *field_num_record_id)
{
    char *token;
    char *save_ptr;

    *field_num_original_url = -1;
    *field_num_checksum = -1;
    *field_num_record_id = -1;

    token = strtok_r (lineptr, CDX_FIELDSEP, &save_ptr);
if (token != NULL && strcmp (token, "CDX") == 0)
{
    int field_num = 0;
    while (token != NULL)
    {
        token = strtok_r (NULL, CDX_FIELDSEP, &save_ptr);
        if (token != NULL)
        {
            switch (token[0])
            {
                case 'a':
                    *field_num_original_url = field_num;
                    break;
                case 'k':
                    *field_num_checksum = field_num;
                    break;
                case 'u':
                    *field_num_record_id = field_num;
                    break;
            }
            field_num++;
        }
    }
}

return *field_num_original_url != -1
    && *field_num_checksum != -1
    && *field_num_record_id != -1;
}

/* Parse the CDX record and add it to the warc_cdx_dedup_table hash table. */
static void
warc_process_cdx_line (char *lineptr, int field_num_original_url,
                        int field_num_checksum, int field_num_record_id)
{
    char *original_url = NULL;
    char *checksum = NULL;
    char *record_id = NULL;
    char *token;
    char *save_ptr;
    int field_num = 0;

    /* Read this line to get the fields we need. */
    token = strtok_r (lineptr, CDX_FIELDSEP, &save_ptr);
    while (token != NULL)
    {
        char **val;
        if (field_num == field_num_original_url)
val = &original_url;
else if (field_num == field_num_checksum)
    val = &checksum;
else if (field_num == field_num_record_id)
    val = &record_id;
else
    val = NULL;

if (val != NULL)
  *val = strdup (token);

  token = strtok_r (NULL, CDX_FIELDSEP, &save_ptr);
  field_num++;
}

if (original_url != NULL && checksum != NULL && record_id != NULL)
{
  /* For some extra efficiency, we decode the base32 encoded
   checksum value. This should produce exactly SHA1_DIGEST_SIZE
   bytes. */
  size_t checksum_l;
  char * checksum_v;
  base32_decode_alloc (checksum, strlen (checksum), &checksum_v,
                      &checksum_l);
  xfree (checksum);

  if (checksum_v != NULL && checksum_l == SHA1_DIGEST_SIZE)
  {
    /* This is a valid line with a valid checksum. */
    struct warc_cdx_record *rec;
    rec = xmalloc (sizeof (struct warc_cdx_record));
    rec->url = original_url;
    rec->uuid = record_id;
    memcpy (rec->digest, checksum_v, SHA1_DIGEST_SIZE);
    hash_table_put (warc_cdx_dedup_table, rec->digest, rec);
    xfree (checksum_v);
  }
  else
  {
    xfree (original_url);
    xfree (checksum_v);
    xfree (record_id);
  }
}
else
{
  xfree (checksum);
  xfree (original_url);
/* Loads the CDX file from opt.warc_cdx_dedup_filename and fills
   the warc_cdx_dedup_table. */
static bool
tarc_load_cdx_dedup_file (void)
{
  FILE *f;
  char *lineptr = NULL;
  size_t n = 0;
  ssize_t line_length;
  int field_num_original_url = -1;
  int field_num_checksum = -1;
  int field_num_record_id = -1;

  f = fopen (opt.warc_cdx_dedup_filename, "r");
  if (f == NULL)
    return false;

  /* The first line should contain the CDX header.
   Format: "CDX x x x x x"
   where x are field type indicators. For our purposes, we only
   need 'a' (the original url), 'k' (the SHA1 checksum) and
   'u' (the WARC record id). */
  line_length = getline (&lineptr, &n, f);
  if (line_length != -1)
    warc_parse_cdx_header (lineptr, &field_num_original_url,
                           &field_num_checksum, &field_num_record_id);

  /* If the file contains all three fields, read the complete file. */
  if (field_num_original_url == -1
      || field_num_checksum == -1
      || field_num_record_id == -1)
  {
    if (field_num_original_url == -1)
      logprintf (LOG_NOTQUIET,
                 ("CDX file does not list original urls. (Missing column 'a').\n"));
    if (field_num_checksum == -1)
      logprintf (LOG_NOTQUIET,
                 ("CDX file does not list checksums. (Missing column 'k').\n"));
    if (field_num_record_id == -1)
      logprintf (LOG_NOTQUIET,
                 ("CDX file does not list record ids. (Missing column 'u').\n"));
  }
  else
  {

int nrecords;

/* Initialize the table. */
warc_cdx_dedup_table = hash_table_new (1000, warc_hash_sha1_digest,
    warc_cmp_sha1_digest);

do
{
    line_length = getline (&lineptr, &n, f);
    if (line_length != -1)
    {
        warc_process_cdx_line (lineptr, field_num_original_url,
            field_num_checksum, field_num_record_id);
    }
}
while (line_length != -1);

/* Print results. */
nrecords = hash_table_count (warc_cdx_dedup_table);
logprintf (LOG_VERBOSE, ngettext ("Loaded %d record from CDX.\n\n", "Loaded %d records from CDX.\n\n", nrecords),
    nrecords);
}

xfree (lineptr);
fclose (f);

return true;
}

/* Returns the existing duplicate CDX record for the given url and payload
digest. Returns NULL if the url is not found or if the payload digest
does not match, or if CDX deduplication is disabled. */
static struct warc_cdx_record *
warc_find_duplicate_cdx_record (const char *url, char *sha1_digest_payload)
{
    struct warc_cdx_record *rec_existing;

    if (warc_cdx_dedup_table == NULL)
        return NULL;

    rec_existing = hash_table_get (warc_cdx_dedup_table, sha1_digest_payload);

    if (rec_existing && strcmp (rec_existing->url, url) == 0)
        return rec_existing;

    return NULL;
}
else
    return NULL;
}

/* Initializes the WARC writer (if opt.warc_filename is set).
   This should be called before any WARC record is written. */
void
warc_init (void)
{
    warc_write_ok = true;

    if (opt.warc_filename != NULL)
    {
        if (opt.warc_cdx_dedup_filename != NULL)
        {
            if (! warc_load_cdx_dedup_file ())
            {
                logprintf (LOG_NOTQUIET,
                    _("Could not read CDX file %s for deduplication.
"),
                    quote (opt.warc_cdx_dedup_filename));
                exit (WGET_EXIT_GENERIC_ERROR);
            }
        }
        warc_manifest_fp = warc_tempfile ();
        if (warc_manifest_fp == NULL)
        {
            logprintf (LOG_NOTQUIET,
                _("Could not open temporary WARC manifest file.
"));
            exit (WGET_EXIT_GENERIC_ERROR);
        }
    }

    if (opt.warc_keep_log)
    {
        warc_log_fp = warc_tempfile ();
        if (warc_log_fp == NULL)
        {
            logprintf (LOG_NOTQUIET,
                _("Could not open temporary WARC log file.
"));
            exit (WGET_EXIT_GENERIC_ERROR);
        }
        log_set_warc_log_fp (warc_log_fp);
    }

    warc_current_file_number = -1;
    if (! warc_start_new_file (false))
    {
        logprintf (LOG_NOTQUIET, _("Could not open WARC file.
"));
    }
exit (WGET_EXIT_GENERIC_ERROR);
}

if (opt.warc_cdx_enabled)
{
  if (! warc_start_cdx_file ()
      
    logprintf (LOG_NOTQUIET,
      "Could not open CDX file for output\n"));
    exit (WGET_EXIT_GENERIC_ERROR);
  
}

/* Writes metadata (manifest, configuration, log file) to the WARC file. */
static void
warc_write_metadata (void)
{
  char manifest_uuid[48];
  FILE *warc_tmp_fp;

  /* If there are multiple WARC files, the metadata should be written to a separate file. */
  if (opt.warc_maxsize > 0)
    warc_start_new_file (true);

  warc_uuid_str (manifest_uuid);

  fflush (warc_manifest_fp);
  warc_write_metadata_record (manifest_uuid,
    "metadata://gnu.org/software/wget/warc/MANIFEST.txt",
    NULL, NULL, NULL, "text/plain",
    warc_manifest_fp, -1);

  /* warc_write_resource_record has closed warc_manifest_fp. */

  warc_tmp_fp = warc_tempfile ();
  if (warc_tmp_fp == NULL)
      
    logprintf (LOG_NOTQUIET, "Could not open temporary WARC file\n");
    exit (WGET_EXIT_GENERIC_ERROR);
  
  fflush (warc_tmp_fp);
  fprintf (warc_tmp_fp, "%s\n", program_argstring);

  warc_write_resource_record (NULL,
    "metadata://gnu.org/software/wget/warc/wget_arguments.txt",
    NULL, manifest_uuid, NULL, "text/plain",
    warc_tmp_fp, -1);
if (warc_log_fp != NULL)
{
    warc_write_resource_record (NULL,
        "metadata://gnu.org/software/wget/warc/wget.log",
        NULL, manifest_uuid, NULL, "text/plain",
        warc_log_fp, -1);
    /* warc_write_resource_record has closed warc_log_fp. */
    warc_log_fp = NULL;
    log_set_warc_log_fp (NULL);
}
int fd;

if (path_search (filename, 100, opt.warc_tempdir, "wget", true) == -1)
    return NULL;

#ifdef __VMS
/* 2013-07-12 SMS. 
* mkostemp()+unlink()+fdopen() scheme causes trouble on VMS, so use 
* mktemp() to uniquify the (VMS-style) name, and then use a normal 
* fopen() with a "create temp file marked for delete" option. */
{
    char *tfn;

    tfn = mktemp (filename); /* Get unique name from template. */
    if (tfn == NULL)
        return NULL;
    return fopen (tfn, "w+", "fop=tmd"); /* Create auto-delete temp file. */
} #else /* def __VMS */
    fd = mkostemp (filename, O_TEMPORARY);
    if (fd < 0)
        return NULL;
#endif /* def __VMS [else] */

#endif /* __VMS */

return fdopen (fd, "wb+");

/* Writes a request record to the WARC file. 
url  is the target uri of the request, 
timestamp_str  is the timestamp of the request (generated with warc_timestamp),
record_uuid  is the uuid of the request (generated with warc_uuid_str),
body  is a pointer to a file containing the request headers and body.
ip  is the ip address of the server (or NULL),
Calling this function will close body.
Returns true on success, false on error. */
bool
warc_write_request_record (const char *url, const char *timestamp_str,
const char *record_uuid, const ip_address *ip,
FILE *body, off_t payload_offset)
{
    warc_write_start_record();
    warc_write_header("WARC-Type", "request");
    warc_write_header_uri("WARC-Target-URI", url);
    warc_write_header("Content-Type", "application/http;msgtype=request");
    warc_write_date_header(timestamp_str);
    warc_write_header("WARC-Record-ID", record_uuid);
    warc_write_ip_header(ip);
    warc_write_header("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
    warc_write_digest_headers(body, payload_offset);
    warc_write_block_from_file(body);
    warc_write_end_record();

    fclose(body);

    return warc_write_ok;
}

/* Writes a response record to the CDX file.
url is the target uri of the request/response,
timestamp_str is the timestamp of the request that generated this response,
    (generated with warc_timestamp),
mime_type is the mime type of the response body (will be printed to CDX),
response_code is the HTTP response code (will be printed to CDX),
payload_digest is the sha1 digest of the payload,
redirect_location is the contents of the Location: header, or NULL (will be printed to CDX),
offset is the position of the WARC record in the WARC file,
warc_filename is the filename of the WARC,
response_uuid is the uuid of the response.
Returns true on success, false on error. */
static bool
warc_write_cdx_record (const char *url, const char *timestamp_str,
                        const char *mime_type, int response_code,
                        const char *payload_digest, const char *redirect_location,
                        off_t offset, const char *warc_filename _GL_UNUSED,
                        const char *response_uuid)
{
    /* Transform the timestamp. */
    char timestamp_str_cdx[15];
    char offset_string[MAX_INT_TO_STRING_LEN(off_t)];
    const char *checksum;

    memcpy (timestamp_str_cdx, timestamp_str, 4); /* "YYYY" "-" */
    memcpy (timestamp_str_cdx + 4, timestamp_str + 5, 2); /* "mm" "-" */
    memcpy (timestamp_str_cdx + 6, timestamp_str + 8, 2); /* "dd" "T" */
    memcpy (timestamp_str_cdx + 8, timestamp_str + 11, 2); /* "HH" ":" */
    memcpy (timestamp_str_cdx + 10, timestamp_str + 14, 2); /* "MM" ":" */
memcpy (timestamp_str_cdx + 12, timestamp_str + 17, 2); /* "SS" "Z" */
timestamp_str_cdx[14] = '\0';

/* Rewire the checksum. */
if (payload_digest != NULL)
    checksum = payload_digest + 5; /* Skip the "sha1:" */
else
    checksum = "-";

if (mime_type == NULL || strlen(mime_type) == 0)
    mime_type = "-";
if (redirect_location == NULL || strlen(redirect_location) == 0)
    redirect_location = "-";
else
    redirect_location = url_escape(redirect_location);

number_to_string (offset_string, offset);

/* Print the CDX line. */
fprintf (warc_current_cdx_file, "%s %s %s %s %d %s %s %s %s %s %s
", url,
        timestamp_str_cdx, url, mime_type, response_code, checksum,
        redirect_location, offset_string, warc_current_filename,
        response_uuid);
fflush (warc_current_cdx_file);
return true;
}

/* Writes a revisit record to the WARC file.
 * url is the target uri of the request/response,
 * timestamp_str is the timestamp of the request that generated this response
 * (generated with warc_timestamp),
 * concurrent_to_uuid is the uuid of the request for that generated this response
 * (generated with warc_uuid_str),
 * refers_to_uuid is the uuid of the original response
 * (generated with warc_uuid_str),
 * payload_digest is the sha1 digest of the payload,
 * ip is the ip address of the server (or NULL),
 * body is a pointer to a file containing the response headers (without payload).
 * Calling this function will close body.
 * Returns true on success, false on error. */
static bool
warc_write_revisit_record (const char *url, const char *timestamp_str,
                          const char *concurrent_to_uuid, const char *payload_digest,
                          const char *refers_to, const ip_address *ip, FILE *body)
{
    char revisit_uuid [48];
    char block_digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];
char sha1_res_block[SHA1_DIGEST_SIZE];

warc_uuid_str (revisit_uuid);

sha1_stream (body, sha1_res_block);
warc_base32_sha1_digest (sha1_res_block, block_digest, sizeof(block_digest));

warc_write_start_record ();
warc_write_header ("WARC-Type", "revisit");
warc_write_header ("WARC-Record-ID", revisit_uuid);
warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
warc_write_header ("WARC-Concurrent-To", concurrent_to_uuid);
warc_write_header ("WARC-Refers-To", refers_to);
warc_write_header ("WARC-Profile", "http://netpreserve.org/warc/1.0/revisit/identical-payload-digest");
warc_write_header ("WARC-Truncated", "length");
warc_write_header_uri ("WARC-Target-URI", url);
warc_write_date_header (timestamp_str);
warc_write_ip_header (ip);
warc_write_header ("Content-Type", "application/http;msgtype=response");
warc_write_header ("WARC-Block-Digest", block_digest);
warc_write_header ("WARC-Payload-Digest", payload_digest);
warc_write_block_from_file (body);
warc_write_end_record ();

fclose (body);

return warc_write_ok;

/* Writes a response record to the WARC file.
url is the target uri of the request/response,
timestamp_str is the timestamp of the request that generated this response
    (generated with warc_timestamp),
concurrent_to_uuid is the uuid of the request for that generated this response
    (generated with warc_uuid_str),
ip is the ip address of the server (or NULL),
body is a pointer to a file containing the response headers and body.
mime_type is the mime type of the response body (will be printed to CDX),
response_code is the HTTP response code (will be printed to CDX),
redirect_location is the contents of the Location: header, or NULL (will be printed to CDX),
Calling this function will close body.
Returns true on success, false on error. */
bool
warc_write_response_record (const char *url, const char *timestamp_str,
    const char *concurrent_to_uuid, const ip_address *ip,
    const char *mime_type, int response_code, const char *redirect_location)
if (opt.warc_digests_enabled)
{
    /* Calculate the block and payload digests. */
    rewind (body);
    if (warc_sha1_stream_with_payload (body, sha1_res_block, sha1_res_payload,
         payload_offset) == 0)
    {
        /* Decide (based on url + payload digest) if we have seen this
           data before. */
        struct warc_cdx_record *rec_existing;
        rec_existing = warc_find_duplicate_cdx_record (url, sha1_res_payload);
        if (rec_existing != NULL)
        {
            bool result;

            /* Found an existing record. */
            logprintf (LOG_VERBOSE,
               _("Found exact match in CDX file. Saving revisit record to WARC\n"));

            /* Remove the payload from the file. */
            if (payload_offset > 0)
            {
                if (ftruncate (fileno (body), payload_offset) == -1)
                    return false;
            }

            /* Send the original payload digest. */
            warc_base32_sha1_digest (sha1_res_payload, payload_digest, sizeof(payload_digest));
            result = warc_write_revisit_record (url, timestamp_str,
                concurrent_to_uuid, payload_digest, rec_existing->uuid,
                ip, body);

            return result;
        }
    }
    warc_base32_sha1_digest (sha1_res_block, block_digest, sizeof(block_digest));
    warc_base32_sha1_digest (sha1_res_payload, payload_digest, sizeof(payload_digest));
}

/* Not a revisit, just store the record. */
warc_uuid_str (response_uuid);

fseeko (warc_current_file, 0L, SEEK_END);
offset = ftello (warc_current_file);

warc_write_start_record ();
warc_write_header ("WARC-Type", "response");
warc_write_header ("WARC-Record-ID", response_uuid);
warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
warc_write_header ("WARC-Concurrent-To", concurrent_to_uuid);
warc_write_header_uri ("WARC-Target-URI", url);
warc_write_date_header (timestamp_str);
warc_write_ip_header (ip);
warc_write_header ("WARC-Block-Digest", block_digest);
warc_write_header ("WARC-Payload-Digest", payload_digest);
warc_write_header ("Content-Type", "application/http;msgtype=response");
warc_write_block_from_file (body);
warc_write_end_record ();

fclose (body);

if (warc_write_ok && opt.warc_cdx_enabled)
{
    /* Add this record to the CDX. */
    warc_write_cdx_record (url, timestamp_str, mime_type, response_code,
                           payload_digest, redirect_location, offset, warc_current_filename,
                           response_uuid);
}

return warc_write_ok;
}

/* Writes a resource or metadata record to the WARC file.
   warc_type  is either "resource" or "metadata",
   resource_uuid  is the uuid of the resource (or NULL),
   url  is the target uri of the resource,
   timestamp_str  is the timestamp (generated with warc_timestamp),
   concurrent_to_uuid  is the uuid of the record that generated this,
   resource  (generated with warc_uuid_str) or NULL,
   ip  is the ip address of the server (or NULL),
   content_type  is the mime type of the body (or NULL),
   body  is a pointer to a file containing the resource data.
   Calling this function will close body.
   Returns true on success, false on error. */
static bool
warc_write_record (const char *record_type, const char *resource_uuid,
                   const char *url, const char *timestamp_str,
const char *concurrent_to_uuid,
const ip_address *ip, const char *content_type, FILE *body,
off_t payload_offset)
{

if (resource_uuid == NULL)
{
    /* using uuid_buf allows const for resource_uuid in function declaration */
    char *uuid_buf = alloca (48);
    warc_uuid_str (uuid_buf);
    resource_uuid = uuid_buf;
}

if (content_type == NULL)
    content_type = "application/octet-stream";

warc_write_start_record ();
warc_write_header ("WARC-Type", record_type);
warc_write_header ("WARC-Record-ID", resource_uuid);
warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
warc_write_header ("WARC-Concurrent-To", concurrent_to_uuid);
warc_write_header_uri ("WARC-Target-URI", url);
warc_write_date_header (timestamp_str);
warc_write_ip_header (ip);
warc_write_digest_headers (body, payload_offset);
warc_write_header ("Content-Type", content_type);
warc_write_block_from_file (body);
warc_write_end_record ();

fclose (body);

return warc_write_ok;
}

/* Writes a resource record to the WARC file.
   resource_uuid  is the uuid of the resource (or NULL),
   url  is the target uri of the resource,
   timestamp_str  is the timestamp (generated with warc_timestamp),
   concurrent_to_uuid  is the uuid of the record that generated this,
   resource  (generated with warc_uuid_str) or NULL,
   ip  is the ip address of the server (or NULL),
   content_type  is the mime type of the body (or NULL),
   body  is a pointer to a file containing the resource data.
   Calling this function will close body.
   Returns true on success, false on error. */
bool
warc_write_resource_record (const char *resource_uuid, const char *url,
                            const char *timestamp_str, const char *concurrent_to_uuid,
                            const ip_address *ip, const char *content_type, FILE *body,
off_t payload_offset)
{
  return warc_write_record("resource",
      resource_uuid, url, timestamp_str, concurrent_to_uuid,
      ip, content_type, body, payload_offset);
}

/* Writes a metadata record to the WARC file.
  record_uuid  is the uuid of the record (or NULL),
  url  is the target uri of the record,
  timestamp_str  is the timestamp (generated with warc_timestamp),
  concurrent_to_uuid  is the uuid of the record that generated this,
  record (generated with warc_uuid_str) or NULL,
  ip  is the ip address of the server (or NULL),
  content_type  is the mime type of the body (or NULL),
  body  is a pointer to a file containing the record data.
  Calling this function will close body.
  Returns true on success, false on error. */
bool
warc_write_metadata_record (const char *record_uuid, const char *url,
     const char *timestamp_str, const char *concurrent_to_uuid,
     ip_address *ip, const char *content_type, FILE *body,
     off_t payload_offset)
{
  return warc_write_record("metadata",
      record_uuid, url, timestamp_str, concurrent_to_uuid,
      ip, content_type, body, payload_offset);
}

1.249 dhcp 4.4.1 r0
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>
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  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
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  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
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  Support for multiple configuration files in libsensors.

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1.253 Coreutils 8.30 r0

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1.254 jemalloc 4.0.4 r0
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1.255 python-ply 3.11 r0

1.256 linux-kernel v4.9.214 e30b9fdec2ff5

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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

*/
1.257 runc-opencontainers 1.0.0-rc6+gitAUTOINC+751f18de2a r0

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Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with
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id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

``The lyf so short, the craft so long to lerne.'' - Chaucer

Chet Ramey, Case Western Reserve University	Internet: chet@po.CWRU.Edu
From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251519.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
/~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)  
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Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
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1.264 pciutils 3.6.2 r0

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---

1.265 m4 1.4.18 r0
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*/

#include "m4.h"

#include <getopt.h>
#include <limits.h>
#include <signal.h>

#include "c-stack.h"
#include "ignore-value.h"
#include "progname.h"
#include "version-etc.h"

#if defined DEBUG_STKOVF
# include "assert.h"
#endif

#define AUTHORS "Rene' Seindal"

static void usage (int) M4_GNUC_NORETURN;

/* Enable sync output for /lib/cpp (-s). */
int sync_output = 0;

/* Debug (-d[flags]). */
int debug_level = 0;

/* Hash table size (should be a prime) (-Hsize). */
size_t hash_table_size = HASHMAX;

/* Disable GNU extensions (-G). */
int no_gnu_extensions = 0;

/* Prefix all builtin functions by `m4_`. */
int prefix_all_builtins = 0;

/* Max length of arguments in trace output (-lsize). */
int max_debug_argument_length = 0;

/* Suppress warnings about missing arguments. */
int suppress_warnings = 0;

/* If true, then warnings affect exit status. */
static bool fatal_warnings = false;

/* If not zero, then value of exit status for warning diagnostics. */
int warning_status = 0;

/* Artificial limit for expansion_level in macro.c. */
int nesting_limit = 1024;

#if defined ENABLE_CHANGEWORD
/* User provided regexp for describing m4 words. */
const char *user_word_regexp = ";
#endif

/* Global catchall for any errors that should affect final error status, but
where we try to continue execution in the meantime. */
int retcode;

struct macro_definition
{
    struct macro_definition *next;
    int code; /* D, U, s, t, \l, or DEBUGFILE_OPTION. */
    const char *arg;
};
typedef struct macro_definition macro_definition;

/* Error handling functions. */

/*-----------------------.
 | Wrapper around error. |
 `-----------------------*/

void
m4_error (int status, int errnum, const char *format, ...)
{
    va_list args;
    va_start (args, format);
    verror_at_line (status, errnum, current_line ? current_file : NULL,
        current_line, format, args);
    if (fatal_warnings && ! retcode)
        retcode = EXIT_FAILURE;
    va_end (args);
}

/*-------------------------------.
 | Wrapper around error_at_line. |
 `-------------------------------*/

void
m4_error_at_line (int status, int errnum, const char *file, int line,
    const char *format, ...)
{
    va_list args;
    va_start (args, format);
    verror_at_line (status, errnum, line ? file : NULL, line, format, args);
    if (fatal_warnings && ! retcode)
        retcode = EXIT_FAILURE;
    va_end (args);
}

#ifndef SIGBUS
# define SIGBUS SIGILL
#endif
#ifndef NSIG
  #ifndef MAX
    # define MAX(a,b) ((a) < (b) ? (b) : (a))
  # endif
  # define NSIG (MAX (SIGABRT, MAX (SIGILL, MAX (SIGFPE, 
    MAX (SIGSEGV, SIGBUS)))) + 1)
  #endif

/* Pre-translated messages for program errors. Do not translate in the signal handler, since gettext and strsignal are not async-signal-safe. */
static const char * volatile program_error_message;
static const char * volatile signal_message[NSIG];

/* Print a nicer message about any programmer errors, then exit. This must be async-signal safe, since it is executed as a signal handler. If SIGNO is zero, this represents a stack overflow; in that case, we return to allow c_stack_action to handle things. */
static void M4_GNUC_PURE
fault_handler (int signo)
{
  if (signo)
  {
    /* POSIX states that reading static memory is, in general, not async-safe. However, the static variables that we read are never modified once this handler is installed, so this particular usage is safe. And it seems an oversight that POSIX claims strlen is not async-safe. Ignore write failures, since we will exit with non-zero status anyway. */
    #define WRITE(f, b, l) ignore_value (write (f, b, l))
    WRITE (STDERR_FILENO, program_name, strlen (program_name));
    WRITE (STDERR_FILENO, ": ", 2);
    WRITE (STDERR_FILENO, program_error_message, 
      strlen (program_error_message));
    if (signal_message[signo])
    {
      WRITE (STDERR_FILENO, ": ", 2);
      WRITE (STDERR_FILENO, signal_message[signo], 
        strlen (signal_message[signo]));
    }
    WRITE (STDERR_FILENO, ":n", 1);
    #undef WRITE
    _exit (EXIT_INTERNAL_ERROR);
  }
}
/*---------------------------------------------.
| Print a usage message and exit with STATUS. |
| '---------------------------------------------*/

static void
usage (int status)
{
if (status != EXIT_SUCCESS)
    xprintf (stderr, "Try '%s --help' for more information.
", program_name);
else
{
    xprintf ('"Usage: %s [OPTION]... [FILE]...
", program_name);
    fputs ('"

Mandatory or optional arguments to long options are mandatory or optional
for short options too.

Operation modes:

- --help display this help and exit
- --version output version information and exit

", stdout);
    xprintf ('"\n
-E, --fatal-warnings once: warnings become errors, twice: stop
execution at first error

-i, --interactive unbuffer output, ignore interrupts

-P, --prefix-builtins force a `m4_' prefix to all builtins

-Q, --quiet, --silent suppress some warnings for builtins

--warn-macro-sequence[=REGEXP] warn if macro definition matches REGEXP
    default %s

", DEFAULT_MACRO_SEQUENCE);
#ifdef ENABLE_CHANGEWORD
    fputs ('"\n
-W, --word-regexp=REGEXP use REGEXP for macro name syntax

", stdout);
#endif

Preprocessor features:

-D, --define=NAME[=VALUE] define NAME as having VALUE, or empty

-I, --include=DIRECTORY append DIRECTORY to include path

-s, --synclines generate `#line NUM "FILE"' lines

-U, --undefine=NAME undefine NAME

", stdout);
puts ('"");

xprintf ("\n
Limits control:\n\n -g, --gnu    override -G to re-enable GNU extensions\n -G, --traditional suppress all GNU extensions\n -H, --hashsize=PRIME set symbol lookup hash table size [509]\n -L, --nesting-limit=NUMBER change nesting limit, 0 for unlimited [%d]\n "), nesting_limit);

puts (""");

fputs ("\n
Frozen state files:\n\n -F, --freeze-state=FILE produce a frozen state on FILE at end\n -R, --reload-state=FILE reload a frozen state from FILE at start\n "", stdout);

fputs ("\n
Debugging:\n\n -d, --debug[=FLAGS] set debug level (no FLAGS implies `aeq')\n --debugfile[=FILE] redirect debug and trace output to FILE\n (default stderr, discard if empty string)\n -l, --arglength=NUM restrict macro tracing size\n -t, --trace=NAME trace NAME when it is defined\n "", stdout);

fputs ("\n
FLAGS is any of:\n a show actual arguments\n c show before collect, after collect and after call\n e show expansion\n f say current input file name\n i show changes in input files\n l say current input line number\n p show results of path searches\n q quote values as necessary, with a or e flag\n t trace for all macro calls, not only traceon'ed\n x add a unique macro call id, useful with c flag\n V shorthand for all of the above flags\n "", stdout);

fputs ("\n
If defined, the environment variable `M4PATH' is a colon-separated list of directories included after any specified by `-I'.\n "", stdout);

fputs ("\n
Exit status is 0 for success, 1 for failure, 63 for frozen file version mismatch, or whatever value was passed to the m4exit macro.\n "", stdout);

"
emit_bug_reporting_address();
}
exit (status);

/*--------------------------------------.
| Decode options and launch execution. |
 `--------------------------------------*/

/* For long options that have no equivalent short option, use a
 non-character as a pseudo short option, starting with CHAR_MAX + 1. */
enum
{
    DEBUGFILE_OPTION = CHAR_MAX + 1, /* no short opt */
    DIVERSIONS_OPTION, /* not quite -N, because of message */
    WARN_MACRO_SEQUENCE_OPTION, /* no short opt */
    HELP_OPTION, /* no short opt */
    VERSION_OPTION /* no short opt */
};

static const struct option long_options[] =
{
    { "arglength", required_argument, NULL, 'l' },
    { "debug", optional_argument, NULL, 'd' },
    { "define", required_argument, NULL, 'D' },
    { "error-output", required_argument, NULL, 'o' }, /* FIXME: deprecate in 2.0 */
    { "fatal-warnings", no_argument, NULL, 'E' },
    { "freeze-state", required_argument, NULL, 'F' },
    { "gnu", no_argument, NULL, 'g' },
    { "hashsize", required_argument, NULL, 'H' },
    { "include", required_argument, NULL, 'I' },
    { "interactive", no_argument, NULL, 'i' },
    { "nesting-limit", required_argument, NULL, 'L' },
    { "prefix-builtins", no_argument, NULL, 'P' },
    { "quiet", no_argument, NULL, 'Q' },
    { "reload-state", required_argument, NULL, 'R' },
    { "silent", no_argument, NULL, 'Q' },
    { "synclines", no_argument, NULL, 's' },
    { "trace", required_argument, NULL, 't' },
    { "traditional", no_argument, NULL, 'G' },
    { "undefine", required_argument, NULL, 'U' },
#ifdef ENABLE_CHANGEWORD
    { "word-regexp", required_argument, NULL, 'W' },
#endif
    { "debugfile", optional_argument, NULL, DEBUGFILE_OPTION },
    { "diversions", required_argument, NULL, DIVERSIONS_OPTION },
};
"warn-macro-sequence", optional_argument, NULL, WARN_MACRO_SEQUENCE_OPTION},

{"help", no_argument, NULL, HELP_OPTION},
{"version", no_argument, NULL, VERSION_OPTION},

{ NULL, 0, NULL, 0 },
};

/* Process a command line file NAME, and return true only if it was stdin. */
static void
process_file (const char *name)
{
if (STREQ (name, "-"))
{
/* If stdin is a terminal, we want to allow 'm4 - file -'
to read input from stdin twice, like GNU cat. Besides,
there is no point closing stdin before wrapped text, to
minimize bugs in syscmd called from wrapped text. */
push_file (stdin, "stdin", false);
}
else
{
char *full_name;
FILE *fp = m4_path_search (name, &full_name);
if (fp == NULL)
{
error (0, errno, _("cannot open `%s'"), name);
/* Set the status to EXIT_FAILURE, even though we
continue to process files after a missing file. */
retcode = EXIT_FAILURE;
return;
}
push_file (fp, full_name, true);
free (full_name);
}
expand_input ();
}

/* POSIX requires only -D, -U, and -s; and says that the first two
must be recognized when interspersed with file names. Traditional
behavior also handles -s between files. Starting OPTSTRING with
'-' forces getopt_long to hand back file names as arguments to opt
'
\1', rather than reordering the command line. */
#ifdef ENABLE_CHANGEWORD
#else
#endif
int main (int argc, char *const *argv)
{
    struct sigaction act;
    macro_definition *head;       /* head of deferred argument list */
    macro_definition *tail;
    macro_definition *defn;
    int optchar;                  /* option character */
    macro_definition *defines;
    bool interactive = false;
    bool seen_file = false;
    const char *debugfile = NULL;
    const char *frozen_file_to_read = NULL;
    const char *frozen_file_to_write = NULL;
    const char *macro_sequence = "";

    set_program_name (argv[0]);
    retcode = EXIT_SUCCESS;
    atexit (close_stdin);

    include_init ();
    debug_init ();

    /* Stack overflow and program error handling. Ignore failure to
     * install a handler, since this is merely for improved output on
     * crash, and we should never crash :). We install SIGBUS and
     * SIGSEGV handlers prior to using the c-stack module; depending on
     * the platform, c-stack will then override none, SIGSEGV, or both
     * handlers. */
    program_error_message
        = xasprintf (_("internal error detected; please report this bug to <%s>"),
            PACKAGE_BUGREPORT);
    signal_message[SIGSEGV] = xstrdup (strsignal (SIGSEGV));
    signal_message[SIGABRT] = xstrdup (strsignal (SIGABRT));
    signal_message[SIGILL] = xstrdup (strsignal (SIGILL));
    signal_message[SIGFPE] = xstrdup (strsignal (SIGFPE));
    if (SIGBUS != SIGILL && SIGBUS != SIGSEGV)
        signal_message[SIGBUS] = xstrdup (strsignal (SIGBUS));
    sigemptyset (&act.sa_mask);
    /* One-shot - if we fault while handling a fault, we want to revert
     * to default signal behavior. */
    act.sa_flags = SA_NODEFER | SA_RESETHAND;
    act.sa_handler = fault_handler;
    sigaction (SIGSEGV, &act, NULL);
    sigaction (SIGABRT, &act, NULL);
sigaction (SIGILL, &act, NULL);
sigaction (SIGFPE, &act, NULL);
sigaction (SIGBUS, &act, NULL);
if (c_stack_action (fault_handler) == 0)
    nesting_limit = 0;

 ifndef DEBUG_STKOVF
 /* Make it easier to test our fault handlers. Exporting M4_CRASH=0
 attempts a SIGSEGV, exporting it as 1 attempts an assertion
 failure with a fallback to abort. */
 {
     char *crash = getenv ("M4_CRASH");
     if (crash)
         {
             if (!strtol (crash, NULL, 10))
                 ++*(int *) 8;
             assert (false);
             abort (false);
         
     }
 }  
 #endif /* DEBUG_STKOVF */

 /* First, we decode the arguments, to size up tables and stuff. */
 head = tail = NULL;

 while ((optchar = getopt_long (argc, (char **) argv, OPTSTRING,
         long_options, NULL)) != -1)
     switch (optchar)
     {
         default:
             usage (EXIT_FAILURE);

         case 'B':
         case 'S':
         case 'T':
             /* Compatibility junk: options that other implementations
              support, but which we ignore as no-ops and don't list in
              --help. */
             error (0, 0, _("warning: `m4 -%c' may be removed in a future release"),
                 optchar);
             break;

         case 'N':
         case DIVERSIONS_OPTION:
             /* -N became an obsolete no-op in 1.4.x. */
             error (0, 0, _("warning: `m4 %s' is deprecated"),
                 optchar == 'N' ? "-N" : "--diversions");
             break;
case 'D':
case 'U':
case 's':
case 't':
case 'l':
case DEBUGFILE_OPTION:
    /* Arguments that cannot be handled until later are accumulated. */
    defn = (macro_definition *) xmalloc (sizeof (macro_definition));
    defn->code = optchar;
    defn->arg = optarg;
    defn->next = NULL;
    if (head == NULL)
        head = defn;
    else
        tail->next = defn;
    tail = defn;
    break;

case 'E':
    if (! fatal_warnings)
        fatal_warnings = true;
    else
        warning_status = EXIT_FAILURE;
    break;

case 'F':
    frozen_file_to_write = optarg;
    break;

case 'G':
    no_gnu_extensions = 1;
    break;

case 'H':
    hash_table_size = strtol (optarg, NULL, 10);
    if (hash_table_size == 0)
        hash_table_size = HASHMAX;
    break;

case 'T':
    add_include_directory (optarg);
    break;

case 'L':
nesting_limit = strtol (optarg, NULL, 10);
break;

case 'P':
    prefix_all_builtins = 1;
    break;

case 'Q':
    suppress_warnings = 1;
    break;

case 'R':
    frozen_file_to_read = optarg;
    break;

#ifdef ENABLE_CHANGEWORD
    case 'W':
        user_word_regexp = optarg;
        break;
#endif

case 'd':
    debug_level = debug_decode (optarg);
    if (debug_level < 0)
    {
        error (0, 0, _("bad debug flags: `\%s'")), optarg);
        debug_level = 0;
    }
    break;

case 'e':
    error (0, 0, _("warning: `m4 -e' is deprecated, use `-i' instead"));
    /* fall through */
    case 'i':
        interactive = true;
        break;

case 'g':
    no_gnu_extensions = 0;
    break;

case 'l':
    max_debug_argument_length = strtol (optarg, NULL, 10);
    if (max_debug_argument_length <= 0)
        max_debug_argument_length = 0;
    break;

case 'o':
/* -o|--error-output are deprecated synonyms of --debugfile, 
but don't issue a deprecation warning until autoconf 2.61 
or later is more widely established, as such a warning 
would interfere with all earlier versions of autoconf. */
/* Don't call debug_set_output here, as it has side effects. */
depend file = optarg;
break;

case WARN_MACRO_SEQUENCE OPTION:
/* Don't call set_macro_sequence here, as it can exit.
--warn-macro-sequence sets optarg to NULL (which uses the 
default regexp); --warn-macro-sequence= sets optarg to ""
(which disables these warnings). */
macro_sequence = optarg;
break;

case VERSION OPTION:
version etc (stdout, PACKAGE, PACKAGE_NAME, VERSION, AUTHORS, NULL);
exit (EXIT_SUCCESS);
break;

case HELP OPTION:
usage (EXIT SUCCESS);
break;
}
defines = head;

/* Do the basic initializations. */
if (debugfile && !debug_set_output (debugfile))
M4ERROR ((warning_status, errno, "cannot set debug file `%s'", debugfile));

input_init ();
output_init ();
symtab_init ();
set_macro_sequence (macro_sequence);
include_env_init ();

if (frozen_file_to_read)
reload_frozen_state (frozen_file_to_read);
else
builtin_init ();

/* Interactive mode means unbuffered output, and interrupts ignored. */

if (interactive)
{
signal (SIGINT, SIG_IGN);
setbuf (stdout, (char *) NULL);
}

/* Handle deferred command line macro definitions. Must come after
initialization of the symbol table. */

while (defines != NULL)
{
    macro_definition *next;
    symbol *sym;

    switch (defines->code)
    {
    case 'D':
        {
            /* defines->arg is read-only, so we need a copy. */
            char *macro_name = xstrdup (defines->arg);
            char *macro_value = strchr (macro_name, '=');
            if (macro_value)
                *macro_value++ = '\0';
            define_user_macro (macro_name, macro_value, SYMBOL_INSERT);
            free (macro_name);
        }
        break;

    case 'U':
        lookup_symbol (defines->arg, SYMBOL_DELETE);
        break;

    case 't':
        sym = lookup_symbol (defines->arg, SYMBOL_INSERT);
        SYMBOL_TRACED (sym) = true;
        break;

    case 's':
        sync_output = 1;
        break;

    case '\l':
        seen_file = true;
        process_file (defines->arg);
        break;

    case DEBUGFILE_OPTION:
        if (!debug_set_output (defines->arg))
            M4ERROR ((warning_status, errno, "cannot set debug file \%s",
                debugfile ? debugfile : "stderr"));
        break;
    }
default:
    M4ERROR ((0, 0, "INTERNAL ERROR: bad code in deferred arguments"));
    abort();

}

next = defines->next;
free (defines);
defines = next;
}

/* Handle remaining input files. Each file is pushed on the input, 
and the input read. Wrapup text is handled separately later. */

if (optind == argc && !seen_file)
    process_file ("-");
else
    for (; optind < argc; optind++)
        process_file (argv[optind]);

/* Now handle wrapup text. */

while (pop_wrapup ())
    expand_input ();

/* Change debug stream back to stderr, to force flushing the debug 
stream and detect any errors it might have encountered. The 
three standard streams are closed by close_stdin. */
default:
    debug_set_output (NULL);

if (frozen_file_to_write)
    produce_frozen_state (frozen_file_to_write);
else
{
    make_diversion (0);
    undivert_all ();
}
output_exit ();
free_macro_sequence ();
exit (retcode);
}

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1

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1.272 icu 62.1 r0

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

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

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS=-Wl,-Bsymbiotic

## 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) $< \n | sed "s/\(^.*\)/\1.o $@ : /g" > $@; \n | -s $@ ] || rm -f $@’

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

```bash
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s `<F' $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ‹*F›.$(SO).$(SO_TARGET_VERSION) $@
```

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

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

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

## End BSD-specific setup

---

1.273 ebtables 2.0.10-4 r4

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1.274 tar 1.30 r0

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1.276 kbd 2.0.4 r0

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#
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>2 byte 0 256 characters, no index
>2 byte 1 512 characters, no index
>2byte2256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode level 2 index
>2byte5512 characters, Unicode level 2 index
>3byte8x%d
#
# PC Screen (console) Fonts - psf2 header
#
0 lelong0x864ab572 psf2 screen font data
>12lelong&11 with Unicode index
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```

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1.279 go-cli

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tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
traditional one-character options, and GNU’ish
--long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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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it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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"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.

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

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

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

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

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

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

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

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

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

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

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

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

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1.290 libsolv 0.6.35 r0

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1.291 libffi 3.2.1 r0

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1.292 lvm2 2.02.180 r0

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/*
 * Coverity usage:
 *
 * translate model into xml
 * cov-make-library -of coverity_model.xml coverity_model.c
 * compile (using outdir 'cov'):
 * cov-build --dir=cov make CC=gcc
 * analyze (agressively, using 'cov')
 * cov-analyze --dir cov --wait-for-license --hfa --concurrency --enable-fnptr --enable-constraint-fpp --security --all -- aggressiveness-level=high --field-offset-escape --user-model-file=coverity/coverity_model.xml
 */
* generate html output (to 'html' from 'cov'):
* cov-format-errors --dir cov --html-output html
*/

struct lv_segment;
struct logical_volume;

struct lv_segment *first_seg(const struct logical_volume *lv)
{
    return ((struct lv_segment **)lv)[0];
}

struct lv_segment *last_seg(const struct logical_volume *lv)
{
    return ((struct lv_segment **)lv)[0];
}

const char *find_config_tree_str(struct cmd_context *cmd, int id, struct profile *profile)
{
    return "STRING";
}

struct logical_volume *origin_from_cow(const struct logical_volume *lv)
{
    if (lv)
        return lv;

    __coverity_panic__();
}

/* simple_memccpy() from glibc */
void *memccpy(void *dest, const void *src, int c, size_t n)
{
    const char *s = src;
    char *d = dest;

    while (n-- > 0)
        if (*((char *)d++ = *(char *)s++) == (char) c)
            return d;

    return 0;
}

/*
* 2 lines below needs to be placed in coverity/config/user_nodefs.h
* Not sure about any other way.
* Without them, coverity shows warning since x86 system header files
* are using inline assembly to reset fdset
void model_FD_ZERO(void *fdset)
{
    unsigned i;

    for (i = 0; i < 1024 / 8 / sizeof(long); ++i)
        ((long*)fdset)[i] = 0;
}

int *__errno_location(void)
{
}

const unsigned short **__ctype_b_loc (void)
{
}

const char *find_config_tree_str(struct cmd_context *cmd, int id, struct profile *profile)
{
    return "text";
}

const char *find_config_tree_str_allow_empty(struct cmd_context *cmd, int id, struct profile *profile)
{
    return "text";
}

/*
 * Until fixed coverity case# 00531860:
 * A FORWARD_NULL false positive on a recursive function call
 * model also these functions:
const struct dm_config_node;
const struct dm_config_node *find_config_tree_array(struct cmd_context *cmd, int id, struct profile *profile)
{
    const struct dm_config_node *cn;

    return cn;
}

const struct dm_config_node *find_config_tree_node(struct cmd_context *cmd, int id, struct profile *profile)
{
    const struct dm_config_node *cn;

    return cn;
}

int find_config_tree_bool(struct cmd_context *cmd, int id, struct profile *profile)
{
    int b;

    return b;
}

*/

1.293 selinux-gui 2.8 r0
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1.295 bridgeutils 1.6 r0

1.296 python3-gevent 1.2.2 r0

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Mathieu Desnoyers
May 13th, 2009

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


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

commit id : 2dc5fa0f7cfb0a64a7a67b39626650e863f16a

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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man/bitstring.3bsd
man/errc.3bsd
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These copyrights are discussed in more detail below.

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed. The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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*
* A collection of File Manager and related routines
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 *
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--- End of original text ---
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The remaining code was written by many people associated with the
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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
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Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
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The decompression core code for the deflate method (inflate.[ch],
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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

1.308 nmap 7.12 r0

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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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Version 2, June 1991

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On all platforms, Nmap is normally linked with:
• libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
  http://www.tcpdump.org/
• libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
  http://code.google.com/p/libdnet/
• PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
  http://www.pcre.org/
• liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
  http://www.lua.org/
• OpenSSL: Cryptographic library. OpenSSL is used by service detection
and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the `--without-openssl` configuration directive.

http://www.openssl.org/

- **LIBLINEAR.** Used for IPv6 OS classification.
  http://www.csie.ntu.edu.tw/~cjlin/liblinear/

- **libsvn.** The Subversion library, used by the updater program nmap-update. http://subversion.apache.org/


On Windows only, Nmap uses:

- **WinPcap:** libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.
  http://www.winpcap.org/

Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/BSD-simplified.

Zenmap and Ndiff require:

- **Python.** The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
  http://www.python.org/

The Windows and Mac OS X binary packages include bundled versions of:

- **GLib, GTK+, ATK, Pango:** These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/LGPL-2.
  http://www.gtk.org/

- **Cairo:** graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files licenses/LGPL-2.1 and licenses/MPL-1.1.
  http://www.cairographics.org/

- **libgailutil:** Accessibility support for GTK+.

- **libpng, jpeg, LibTIFF:** Image file format libraries used by GTK+.

- **zlib and bzip2:** compression libraries.

- **Expat:** XML parser library.
  http://expat.sourceforge.net/

- **fontconfig:** font configuration library.
  http://www.fontconfig.org/

- **FreeType:** font rendering library.
  http://www.freetype.org/

- **libiconv:** Under the GNU LGPL 2.
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- **libintl:** gettext translation facilities. Under the GNU LGPL 2 and 2.1.
  http://www.gnu.org/software/gettext/

- **libxml2:** XML parsing library.
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o SQLite.
  http://www.sqlite.org/
o PyGTK, PyGObject: bindings for Python. Licensed under the GNU LGPL 2.1.
  http://www.pygtk.org/
o PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1.

The Mac OS binary packages also include:
o Various X.org libraries. These were built using MacPorts.
  http://www.x.org/ http://www.macports.org/

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

1.311 dmidecode 3.1 r0

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1.312 python-pycrypto 2.6.1 r0
1.312.1 Available under license:

From dlitz@dlitz.net Sun Aug  2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090803014825.GA1326@rivest.dlitz.net>
MIME-Version: 1.0
Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_ by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
   by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
   by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in
'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
   by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066
for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)
Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3
   for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
   d=gmail.com; s=gamma;
h=domainkey-signature:mime-version:received:in-reply-to:references
   :from:date:message-id:subject:to:content-type:content-transfer-encoding;
b=A0RHBt0TnrrbKS5qOHJ3WYbkZ+b0cuPeuoKAAvpApWcc=;
b=gyTqkRhKHAdFKIIZCBWSRbnMNVDq1PWJhyc0ExxPskaOhr3HAR96MWQNBePu40Ac
   Vn55qIqTdom4e9zlUEE6MwZo9kqi/Qw0/L/SLib0DiQeNqo/eHYqPmuVswitaYwNAYMJ
   Y9++76rPGzqYdALsfsvmwv7Q3/bEmjVTr0tQE=
DomainKey-Signature: a=rsa-sha1; c=nofws;
   d=gmail.com; s=gamma;
h=mime-version:in-reply-to:references:from:date:message-id:subject:to
   :content-type:content-transfer-encoding;
b=jze7KSMkUGilVCXKXXaaXMi5NAtrGdMQOtVZZfRNVyG5y68x0d2sxejyyig3EfT6Nv6
   Q3opUMsT96QszjZND55w446kTh2uBNTzn4d3NweiEWJnG3xclIRQu/mXPFp8AzPI3CefL
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:

> Hi Paul,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.

That's great!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=
> blic
> domain all your contributions to PyCrypto, with the following notice?
>
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
> =C2=A0The contents of this file are dedicated to the public domain. =C2=
> =A0To the
> =C2=A0extent that dedication to the public domain is not available, every=
> one
> =C2=A0is granted a worldwide, perpetual, royalty-free, non-exclusive lice=
> nse
> =C2=A0to exercise all rights associated with the contents of this file fo=
> r
> =C2=A0any purpose whatsoever. =C2=A0No rights are reserved.

> Yes, that's fine. Good luck with the new release!
From dlitz@dlitz.net Mon Aug  3 14:35:01 2009
Date: Mon, 3 Aug 2009 14:35:01 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: Re: PyCrypto license clarification
Message-ID: <20090803183501.GA17472@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
          <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1; format=flowed
Content-Disposition: inline
Content-Transfer-Encoding: 8bit
In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
>On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
>> Hi Paul,
>>
>> I am the new maintainer of the Python Cryptography Toolkit, and I am
>> working on a new release at http://www.pycrypto.org/.
>
>That's great!
>
>> I understand that you have made contributions to PyCrypto, under nickname
>> "z3p" and/or other names. May I, on your behalf, dedicate to the public
>> domain all your contributions to PyCrypto, with the following notice?
>>
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Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
00INDEX  - This file
tsu-notify.mbox  - Notification sent per U.S. export regulations
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From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: "A. M. Kuchling" <amk@amk.ca>
Subject: PyCrypto license clarification
Message-ID: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: multipart/signed; micalg=pgp-sha1; protocol="application/pgp-signature"; boundary="YiEDa0DAkWCtVeE4"
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3461
Lines: 78

--YiEDa0DAkWCtVeE4
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
Content-Transfer-Encoding: quoted-printable

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GPL-compatible, etc. Right now, I'm not really sure what to tell them. =20
The text in the current LICENSE file (quoted below) is not entirely clear=
=20
on the point of whether distributing modified versions is allowed. (It=20
says "distribute and use", but not "modify".)

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--amk                                                    (www.amk.ca)

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clearer licensing regime. I'm asking as many copyright holders as I can=20
find, starting with you, if I can release PyCrypto under something clearer=20
and more standard. Below, I have quoted a public domain dedication that=20
was recommended in _Intellectual Property and Open Source: A Practical=20

May I, on your behalf, dedicate to the public domain your considerable=20
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any purpose whatsoever. No rights are reserved.
Regards,
- Dwayne

---

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline

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Version: GnuPG v1.4.5 (GNU/Linux)
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yloAn33a3ZjkeyTaTbzEqImOEW8JGpf
=aBEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--
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The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

The intention is that it be public domain.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

You may.

--amk
To: crypt@bis.doc.gov,
encl@nsa.gov,
web_site@bis.doc.gov,
pycrypto@lists.dlitz.net,
PYTHON-CRYPTO@NIC.SURFNET.NL,
dlitz@dlitz.net

Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net
designates 64.5.53.201 as permitted sender) identity=mailfrom;
client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;
helo=goedel.dlitz.net; mechanism=all; envelope-from=dlitz@dlitz.net;
Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by
m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id
taxsjaqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100
Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1])
by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1
for <post@stamper.itconsult.co.uk>; Wed, 27 Aug 2008 18:42:56 -0600 (CST)
Received: by rivest.dlitz.net (Postfix, from userid 1000)
id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0400 (EDT)
Received: by rivest.dlitz.net (tmda-sendmail, from uid 1000);
Date: Wed, 27 Aug 2008 20:42:54 -0400
Cc: post@stamper.itconsult.co.uk
Subject: PyCrypto TSU NOTIFICATION
Message-ID: <20080828004254.GA31214@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AF822FC7ID9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
X-Delivery-Agent: TMDA/1.1.9 (Jura)
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
X-DNSBL: 0
Status: O
Content-Length: 2182
Lines: 65

-----BEGIN PGP SIGNED MESSAGE-----

########################################################
#
# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:-
# dlitz@dlitz.net
# requested that this message be sent to:-
# crypt@bis.doc.gov
# enc@nsa.gov
# web_site@bis.doc.gov
# pycrypto@lists.dlitz.net
# PYTHON-CRYPTO@NIC.SURFNET.NL
# dlitz@dlitz.net
#
# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978
#
# CAUTION: while the message may well be from the sender
# indicated in the "From:" header, the sender
# has NOT been authenticated by this service
#
# For information about the Stamper service see
# http://www.itconsult.co.uk/stamper.htm
#
########################################################

SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in
Canada. I am not certain whether PyCrypto contains enough US-origin
encryption to be covered by U.S. export controls, but I am submitting
this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----
On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

> For the next PyCrypto release, I would like to take steps to move
> toward a clearer licensing regime. I am asking as many copyright
> holders as I can find if I can release PyCrypto under something
> clearer and more standard. Below, I have quoted a public domain
> dedication that was recommended in _Intellectual Property and Open
> Source: A Practical Guide to Protecting Code_, by Van Lindberg. I
> have already contacted A. M. Kuchling, and he has approved the
> following dedication for his contributions.
> 
> > May I, on your behalf, dedicate to the public domain all your
> > contributions to PyCrypto, with the following notice?
> >
> >
> > =
> >
> > The contents of this file are dedicated to the public domain. To
> > the extent that dedication to the public domain is not available,
> > everyone is granted a worldwide, perpetual, royalty-free, non-exclusive
> > license to exercise all rights associated with the contents of this file
> > for any purpose whatsoever. No rights are reserved.

Open Source Used In XE-SDK 17.3 17.3-3.2.2 4224
In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)
iEYEAReCAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQClQmYyVODvIlyLg0hgCl9LAhQ
SH8AoLJgaqIi7/7ZYDc+/-Cd8VO0xLbr
=Mv6g
-----END PGP SIGNATURE-----
Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.org>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On November 23, 2008, you wrote:
> Hi Wim,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
>
> I understand that you have made contributions to PyCrypto. May I, on
> your behalf, dedicate to the public domain all your contributions to
> PyCrypto, with the following notice?
>
> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license,
Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

===================================================================
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
===================================================================

Distributing modified versions is allowed (in fact, encouraged); you do not have to make source available or contribute your changes back (though that would be nice).
For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_ by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 03:08:32 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 2315B40583
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 01:08:32 -0600 (CST)
Received: (vmailmgr-postfix 16890 invoked by uid 1003);  5 May 2009 01:08:32 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97
Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])
by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
Joris

Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:

> Hi Joris,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
> 
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> 
> Distribute and use freely; there are no restrictions on further
> dissemination and usage except those imposed by the laws of your
> country of residence. This software is provided "as is" without
> warranty of fitness for use or suitability for any purpose, express
> or implied. Use at your own risk or not at all.
> 
> Incorporating the code into commercial products is permitted; you do
> not have to make source available or contribute your changes back
> (though that would be nice).
>
> --amk                                                    (www.amk.ca)
>
> For the next PyCrypto release, I would like to take steps to move toward a
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> 
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> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
> Hi Dwayne,
> 
> Thanks for taking over the PyCrypto library and putting in the required
effort to keep this going.
> I was very excited to read that it is now one of the installed libraries
> for Google AppsEngine!
> 
> You have my full permission to dedicate all my contributions to PyCrypto to
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> =======================================================================
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Regards,
Joris

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>
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>
> Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

> Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

> --amk (www.amk.ca)

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I understand that you have made contributions to PyCrypto. May I, on your
In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

**Developer's Certificate of Origin 1.1**

By making a contribution to this project, I certify that:

(a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or
(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

=== EOF ===
From dlitz@dlitz.net Sat Feb 28 23:24:14 2009
Date: Sat, 28 Feb 2009 23:24:14 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Jeethu Rao <jeethurao@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2513

Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

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Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
   Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.

I don't really check this email address all that often,
please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
>
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> ==============================================================
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> country of residence. This software is provided "as is" without
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>
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Jeethu Rao

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Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

--
Jeethu Rao

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Regards,
- Dwayne

---

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

--
Jeethu Rao

--000e0cd209d0e5a3d40464a23054
Content-Type: text/html; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

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I don’t really check this email address all that often. Please direct any further correspondence to <a href="mailto:jeethu@jeethurao.com">jeethu@jeethurao.com</a>

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Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).
4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Exception:

- Portions of HMAC.py and setup.py are derived from Python 2.2, and are therefore Copyright (c) 2001, 2002, 2003 Python Software Foundation (All Rights Reserved). They are licensed by the PSF under the terms of the Python 2.2 license. (See the file LEGAL/copy/LICENSE.python-2.2 for details.)

EXPORT RESTRICTIONS:

Note that the export or re-export of cryptographic software and/or source code may be subject to regulation in your jurisdiction.

From dlitz@dlitz.net Sat Apr 18 09:14:20 2009
Date: Sat, 18 Apr 2009 09:14:20 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Mark Moraes <moraes@computer.org>
Subject: PyCrypto license clarification
Message-ID: <20090418131419.GA14494@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2635

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===================================================================
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Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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Regards,
- Dwayne
From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
    for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
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    by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
    for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
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    for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
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DomainKey-Signature:a=rsa-sha1; q=nofws;
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Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT
X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)
From: M Moraes <markmoraes@yahoo.com>
Reply-To: moraes@computer.org
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at http://www.pycrypto.org/.
> People often ask me what license PyCrypto is covered by, if
> it's
> GPL-compatible, etc. Right now, I'm not really sure
> what to tell them.
> The text in the current LICENSE file (quoted below) is not
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>     (though that would be nice).

> --amk

> (www.amk.ca)

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>
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> to exercise all rights associated with
> the contents of this file for
> any purpose whatsoever. No
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

> Hi Dwayne.

> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

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> >>
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======================================================================

Regards,
- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>
  Key-signing key  19E1
  1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

--
Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPLv3-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar  2 11:29:39 2009
X-Mailldir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 11:29:39 -0500 (EST)
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by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 10:29:39 -0600 (CST)
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Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
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by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
for <dlitz@dlitz.net>; Mon,  2 Mar 2009 10:29:38 -0600 (CST)
Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
by mail.wooz.org (Postfix) with ESMTPS id ACE30E3C9F
for <dlitz@dlitz.net>; Mon,  2 Mar 2009 11:29:35 -0500 (EST)
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
From: Barry Warsaw <barry@python.org>
To: Dwayne C. Litzenberger <dlitz@dlitz.net>
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
Content-Type: text/plain; charset=US-ASCII; format=flowed; delsp=yes
Content-Transfer-Encoding: quoted-printable
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=
> working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important =20=
Python library.

> I understand that you have made contributions to PyCrypto. May I, =20,
> on your behalf, dedicate to the public domain all your contributions =20=
> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)

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=3DQduY
-----END PGP SIGNATURE-----
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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<th>Owner</th>
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<tr>
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</tr>
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<td>2.2.2</td>
<td>2003</td>
<td>PSF</td>
<td>yes</td>
</tr>
</tbody>
</table>

Footnotes:

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Gocheck - A rich testing framework for Go

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1.321 go-context git r0

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1.322 bluez-tools

0.2.0+gitAUTOINC+7cb788c9c4 r0

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1.323 python3-pyasn1 0.4.4 r0

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1.324 glibc 2.28 r0
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From 18fe4a6172c58fe863fe388745c78ec642c2c6fc Mon Sep 17 00:00:00 2001
From: Serhii Popovych <spopovyc@cisco.com>
Date: Fri, 23 Sep 2016 23:00:43 -0700
Subject: [PATCH] glibc: Do not build BSD kernels compatibility functions

They are failing stubs anyway and may cause various
build time issues (e.g. libopenbsd-compat.so from
binos/contrib/openssh linking failures due to
multiple setlogin() definitions).

Following functions are not in glibc with this patch:

chflags
fchflags
lchmod
revoke
setlogin

Signed-off-by: Serhii Popovych <spopovyc@cisco.com>

---

io/Makefile | 2 +-
login/Makefile | 2 +-;
misc/Makefile | 3 +--;
3 files changed, 3 insertions(+), 4 deletions(-)

diff --git a/io/Makefile b/io/Makefile
index ec5c6d7a2f8..fc062296a560 100644
--- a/io/Makefile
+++ b/io/Makefile
@@ -36,7 +36,7 @ @ routines :=\-
fstatat fxstatat64\-
statfs fsstatfs statfs64 fstatfs64\-
statvfs fsstatvfs statvfs64 fstatvfs64\-
-umask chmod fchmod lchmod chmod orderId\-
+umask chmod fchmod lchmod fchmod orderId\-
mkdir mkdirat\-
open open_2 open64 open64_2 openat openat_2 openat64 openat64_2\-
read write lseek lseek64 access euidaccess faccessat\-
diff --git a/login/Makefile b/login/Makefile
index 8b31991be835..2cd1384c6e01 100644
--- a/login/Makefile
+++ b/login/Makefile

@@ -25,7 +25,7 @@ include ../Makeconfig
headers:= utmp.h bits/utmp.h lastlog.h pty.h

-routines := getlogin getlogin_r setlogin getlogin_r_chk \
+ routines := getlogin getlogin_r getlogin_r_chk \
    getutent getutent_r getutid getutline getutid_r getutline_r \
    utmp_file utmpname updwtmp getpt grantpt unlockpt ptsname r \
    ptsname_r_chk
diff --git a/misc/Makefile b/misc/Makefile
index c9f81515ac9a..b4bce79e5854 100644
--- a/misc/Makefile
+++ b/misc/Makefile
@@ -49,7 +49,7 @@ routines := brk sbrk sstk ioctl \
    acct chroot fsync sync fdatasync syncfs reboot \
    gethostid sethostid \
-    revoke vhangup \
+    vhangup \
    swapon swapoff mktemp mkstemp64 mkdtemp \
    mkostemp mkostemp64 mkstems64 mkstems64 mksostems64 \
    ualarm usleep \
@@ -58,7 +58,6 @@ routines := brk sbrk sstk ioct1 \
    fstab mntent mntent_r \
    utimes lutimes futimes futimesat \
    truncate ftruncate truncate64 ftruncate64 \
-    chflags fchflags \
    insremque getttyent getusershell getpass ttyslot \
    syslog syscall daemon \
    mmap mmap64 munmap mprotect msync madvise mincore remap_file_pages

1.325 python-ipy 0.83 r0
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1.326 iproute 4.13.0 r0
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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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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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1.337 libevent 2.1.8 r0

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1.339 systemd 239 r0

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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);
#endif /* !HAVE_WAITPID */

#endif /* _BSD_WAITPID_H */

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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 0x0010
#define POLLHUP 0x0020
#define POLLNVAL 0x0020
#endif /* _COMPAT_POLL_H_ */

/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $*/

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

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

#define__COMPAT_POLL_H_
#endif /* __COMPAT_POLL_H_ */

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*/
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#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 */

1.341 tipc-utils

2.2.0+gitAUTOINC+7ab2211b87 r0

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.345 python-pygobject 3.28.3 r0

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1.346 libarchive 3.3.3 r0

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1.347 usbutils 010 r0

1.348 shared-mime-info 1.10 r0

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Gocheck - A rich testing framework for Go

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goproperties - properties file decoder for Go

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.351 python-ipaddress 1.0.22 r0

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Also thanks to all the people who reported bugs and suggested new features.

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1.356 libcap 2.25 r0

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1.357 keyutils 1.5.10 r0

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1.358 inotify-tools 3.14 r0

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/* Native-dependent code for modern AMD64 BSD's.

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#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#include "x86-bsd-nat.h"

/* Helper functions. See definitions. */
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache, int regnum);
extern void amd64bsd_store_inferior_registers (struct regcache *regcache, int regnum);

/* A prototype *BSD/AMD64 target. */

template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
  public:
    void fetch_registers (struct regcache *regcache, int regnum) override
    { amd64bsd_fetch_inferior_registers (regcache, regnum); }

    void store_registers (struct regcache *regcache, int regnum) override
    { amd64bsd_store_inferior_registers (regcache, regnum); }
};
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```plaintext
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#
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```

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

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

Always review the output of this script before committing it! A useful command to review the output is:

```
% filterdiff -x *.c -x *.cc -x *.h -x *.exp updates.diff
```

This removes the bulk of the changes which are most likely to be correct.

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

def get_update_list():
    
    
    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('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 MULTIPLE_COPYRIGHT_HEADERS:
        print
        print("\033[31m"
              "REMINDER: Multiple copyright headers must be updated by hand:" 
              "\033[0m")
        for filename in MULTIPLE_COPYRIGHT_HEADERS:
            print " ", filename

    if BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand." \

"\033[0m"
for filename in BY_HAND:
    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 = (  
    # Nothing at the moment :-).  
)

# 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",  
)
NOT_FSF_LIST = (  
  "gdb/exc_request.defs",
  "gdb/gdbtk",
  "gdb/testsuite/gdb-gdbtk/",
  "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
  "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
  "sim/arm/armos.h", "sim/arm/armcpro.c", "sim/arm/armemu.c",
  "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
  "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
  "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
  "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
  "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
  "sim/arm/arminit.c",
  "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
  "sim/common/cgen-accfp.c",
  "sim/mips/m16run.c", "sim/mips/sim-main.c",
  "sim/moxie/moxie-gdb.dts",
  # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
  "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
  "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
  "sim/ppc/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/callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
  "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
  "sim/ppc/hw_phb.c", "sim/ppc/hw_eprom.c", "sim/ppc/bits.h",
  "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
  "sim/ppc/options.h", "sim/ppc/gen-decode.h", "sim/ppc/filter.c",
  "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
  "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
  "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple.h", "sim/ppc/misc.h",
  "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
  "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
  "sim/ppc/hw_idc.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
  "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
  "sim/ppc/callbacks.c", "sim/ppc/dc-complex.h", "sim/ppc/ld-cache.c",
  "sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
  "sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
  "sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
  "sim/ppc/endian-n.h", "sim/ppc/filter_filename.c",
  "sim/ppc/bits.c", "sim/ppc/decode_fields.h", "sim/ppc/hw_memory.c",
  "sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
  "sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
  "sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
  "sim/ppc/gen-instructions", "sim/ppc/id_cache.h", "sim/ppc/id-cache.h",  
)
if __name__ == "__main__":
    main()

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Version 2.1, February 1999

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

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BEGIN{ 
    FS="\"";
    print "/\* ==\=> Do not modify this file!! \" \\
    ";
    print "\"-\"- 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 (const char *, int);"
    print ""
    print "static void show_warranty_command (const char *, int);"
    print ""
    print "static void"
;
    print "show_copying_command (const char *ignore, int from_tty)"
;
    print "\""
;
    NR == 1,/^[ ]*15. Disclaimer of Warranty\[ ]*$/
    if ($0 ~ /\[/ )
    {
        printf " printf_filtered (\"\n\n\n";
    }
    else if ($0 !~ /^[ ]*15. Disclaimer of Warranty\[ ]*$/)
    {
        printf " printf_filtered (\\"
        for (i = 1; i < NF; i++)
        printf "%s\", $i;
        printf "%s\n\n\n", $NF;
    }
    }

    }/^[ ]*15. Disclaimer of Warranty\[ ]*$/
    print 
    print ""
    print "static void"
;
    print "show_warranty_command (const char *ignore, int from_tty)"
;
    print "\""
;
    }/^[ ]*15. Disclaimer of Warranty\[ ]*$/
if (! ($0 ~ /[ ]*END OF TERMS AND CONDITIONS[ ]*$/))
    {
        printf " printf_filtered (\"
        for (i = 1; i < NF; i++)
        printf "%s\", $i;
        printf "%s\n\n\n", $NF;
    }
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#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H

/* Helper functions. See definitions. */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache,
   int regnum);
extern void i386bsd_store_inferior_registers (struct regcache *regcache,
   int regnum);

/* A prototype *BSD/i386 target. */

template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
   void fetch_registers (struct regcache *regcache, int regnum) override
   { i386bsd_fetch_inferior_registers (regcache, regnum); }

   void store_registers (struct regcache *regcache, int regnum) override
   { i386bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */
/* Native-dependent code for x86 BSD's.

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#ifndef X86_BSD_NAT_H
#define X86_BSD_NAT_H

#include "x86-nat.h"

/* Low level x86 XSAVE info. */
extern size_t x86bsd_xssave_len;

/* A prototype *BSD/x86 target. */

template<typename BaseTarget>
class x86bsd_nat_target : public x86_nat_target<BaseTarget>
{
    using base_class = x86_nat_target<BaseTarget>;

public:
    #ifdef HAVE_PT_GETDBREGS
    void mourn_inferior () override
    {
        x86_cleanup_dregs ();
        base_class::mourn_inferior ();
    }
    #endif /* HAVE_PT_GETDBREGS */
};

#endif /* x86-bsd-nat.h */

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Version 3, 29 June 2007

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/* BSD Kernel Data Access Library (libkvm) interface.

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#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
#include "value.h"
#include "gdbcore.h" /* for get_exec_file */
#include "gdbthread.h"

#include <fcntl.h>
#include <kvm.h>
#ifdef HAVE_NLIST_H
#include <nlist.h>
#endif
#include <paths.h>
#include "readline/readline.h"
#include <sys/param.h>
#include <sys/proc.h>
#ifdef HAVE_SYS_USER_H
#include <sys/user.h>
#endif
#include "bsd-kvm.h"

/* Kernel memory device file. */
static const char *bsd_kvm_corefile;

/* Kernel memory interface descriptor. */
static kvm_t *core_kd;

/* Address of process control block. */
static struct pcb *bsd_kvm_paddr;

/* Pointer to architecture-specific function that reconstructs the
 register state from PCB and supplies it to REGCACHE. */
static int (*bsd_kvm_supply_pcb)(struct regcache *regcache, struct pcb *pcb);

/* This is the ptid we use while we're connected to kvm. The kvm
target currently doesn't export any view of the running processes,
so this represents the kernel task. */
static ptid_t bsd_kvm_ptid;

/* The libkvm target. */

static const target_info bsd_kvm_target_info = {
  "kvm",
  N_("Kernel memory interface"),
  N_("Use a kernel virtual memory image as a target.
 Optionally specify the filename of a core dump."),
};

class bsd_kvm_target final : public target_ops
{
public:
  bsd_kvm_target ()
  { this->to_stratum = process_stratum; }

  const target_info &info () const override
  { return bsd_kvm_target_info; }

  void close () override;

  void fetch_registers (struct regcache *, int) override;
  enum target_xfer_status xfer_partial (enum target_object object,
const char *annex,
gdb_byte *readbuf,
const gdb_byte *writebuf,
ULONGEST offset, ULONGEST len,
ULONGEST *xfered_len) override;

void files_info () override;
bool thread_alive (ptid_t ptid) override;
const char *pid_to_str (ptid_t) override;

bool has_memory () override { return true; }
bool has_stack () override { return true; }
bool has_registers () override { return true; }

/* Target ops for libkvm interface. */
static bsd_kvm_target bsd_kvm_ops;

static void
bsd_kvm_target_open (const char *arg, int from_tty)
{
  char errbuf[_POSIX2_LINE_MAX];
  char *execfile = NULL;
  kvm_t *temp_kd;
  char *filename = NULL;

  target_preopen (from_tty);

  if (arg)
  {
    char *temp;

    filename = tilde_expand (arg);
    if (filename[0] != '/')
    {
      temp = concat (current_directory, "/", filename, (char *)NULL);
      xfree (filename);
      filename = temp;
    }
  }

  execfile = get_exec_file (0);
  temp_kd = kvm_openfiles (execfile, filename, NULL,
      write_files ? O_RDWR : O_RDONLY, errbuf);
  if (temp_kd == NULL)
    error ("%s"), errbuf);

  bsd_kvm_corefile = filename;
unpush_target (&bsd_kvm_ops);
core_kd = temp_kd;
push_target (&bsd_kvm_ops);

add_thread_silent (bsd_kvm_ptid);
inferior_ptid = bsd_kvm_ptid;

target_fetch_registers (get_current_regcache (), -1);

reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

void
bsd_kvm_target::close ()
{
  if (core_kd)
    {
      if (kvm_close (core_kd) == -1)
        warning (("%s"), kvm_geterr(core_kd));
      core_kd = NULL;
    }

  inferior_ptid = null_ptid;
discard_all_inferiors ();
}

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,
  gdb_byte *readbuf, const gdb_byte *writebuf)
{
  ssize_t nbytes = len;

  if (readbuf)
    nbytes = kvm_read (core_kd, addr, readbuf, nbytes);
  if (writebuf && nbytes > 0)
    nbytes = kvm_write (core_kd, addr, writebuf, nbytes);
  return nbytes;
}

enum target_xfer_status
bsd_kvm_target::xfer_partial (enum target_object object,
  const char *annex, gdb_byte *readbuf,
  const gdb_byte *writebuf,
  ULONGEST offset, ULONGEST len, ULONGEST *xfered_len)
{
  switch (object)
  {

case TARGET_OBJECT_MEMORY:
    {
    LONGEST ret = bsd_kvm_xfer_memory (offset, len, readbuf, writebuf);

    if (ret < 0)
        return TARGET_XFER_E_IO;
    else if (ret == 0)
        return TARGET_XFER_EOF;
    else
    {
        *xfered_len = (ULONGEST) ret;
        return TARGET_XFER_OK;
    }
    }

    default:
    return TARGET_XFER_E_IO;
    }

void
bsd_kvm_target::files_info ()
{
    if (bsd_kvm_corefile && strcmp (bsd_kvm_corefile, _PATH_MEM) != 0)
        printf_filtered ((_("\tUsing the kernel crash dump %s.%\n"),
            bsd_kvm_corefile);
    else
        printf_filtered ((_("\tUsing the currently running kernel.%\n"));
}

/* Fetch process control block at address PADDR. */

static int
bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)
{
    struct pcb pcb;

    if (kvm_read (core_kd, (unsigned long) paddr, &pcb, sizeof pcb) == -1)
        error (("%s"), kvm_geterr (core_kd));

    gdb_assert (bsd_kvm_supply_pcb);
    return bsd_kvm_supply_pcb (regcache, &pcb);
}

void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
    struct nlist nl[2];
if (bsd_kvm_paddr)
{
    bsd_kvm_fetch_pcb (regcache, bsd_kvm_paddr);
    return;
}

/* On dumping core, BSD kernels store the faulting context (PCB)
in the variable "dumppcb". */
memset (nl, 0, sizeof nl);
nl[0].n_name = "_dumppcb";

if (kvm_nlist (core_kd, nl) == -1)
    error ("%s");
else
    /* Found dumppcb. If it contains a valid context, return immed-
     *  ialy. */
    if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
        return;

/* Traditional BSD kernels have a process proc0 that should always
be present. The address of proc0's PCB is stored in the variable
"proc0paddr". */
memset (nl, 0, sizeof nl);
nl[0].n_name = "_proc0paddr";

if (kvm_nlist (core_kd, nl) == -1)
    error ("%s");
else
    /* Found proc0paddr. */
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
        error ("%s");
    else
    
        bsd_kvm_fetch_pcb (regcache, paddr);
        return;

#ifdef HAVE_STRUCT_THREAD_TD_PCB
/* In FreeBSD kernels for 5.0-RELEASE and later, the PCB no longer
lives in `struct proc' but in `struct thread'. The `struct

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thread' for the initial thread for proc0 can be found in the variable "thread0". */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_thread0";

if (kvm_nlist (core_kd, nl) == -1)
    error ("%s");
    kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{
    struct pcb *paddr;

    /* Found thread0. */
    nl[0].n_value += offsetof (struct thread, td_pcb);
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
        error ("%s");
        kvm_geterr (core_kd));

        bsd_kvm_fetch_pcb (regcache, paddr);
        return;
}
#endif

/* i18n: PCB == "Process Control Block". */
error (_("Cannot find a valid PCB"));

/* Kernel memory interface commands. */
struct cmd_list_element *bsd_kvm_cmdlist;

static void
bsd_kvm_cmd (const char *arg, int fromtty)
{
    /* ?? Should this become an alias for "target kvm"? */
}
#endif HAVE_STRUCT_THREAD_TD_PCB

static void
bsd_kvm_proc_cmd (const char *arg, int fromtty)
{
    CORE_ADDR addr;

    if (arg == NULL)
        error_no_arg (_("proc address"));

    if (core_kd == NULL)
error ("No kernel memory image.");

addr = parse_and_eval_address (arg);
#ifdef HAVE_STRUCT_LWP
addr += offsetof (struct lwp, l_addr);
#else
addr += offsetof (struct proc, p_addr);
#endif

if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)
    error ("%s");

target_fetch_registers (get_current_regcache (), -1);

reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}
#endif

static void
bsd_kvm_pcb_cmd (const char *arg, int fromtty)
{
    if (arg == NULL)
        /* i18n: PCB == "Process Control Block". */
        error_no_arg (_("pcb address"));

    if (core_kd == NULL)
        error ("No kernel memory image.");

    bsd_kvm_paddr = (struct pcb *)(u_long) parse_and_eval_address (arg);

    target_fetch_registers (get_current_regcache (), -1);

    reinit_frame_cache ();
    print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

bool
bsd_kvm_target::thread_alive (ptid_t ptid)
{
    return true;
}

const char *
bsd_kvm_target::pid_to_str (ptid_t ptid)
{
    static char buf[64];
xsnprintf (buf, sizeof buf, "<kvm>"));
return buf;
}

/* Add the libkvm interface to the list of all possible targets and
   register CUPPLY_PCB as the architecture-specific process control
   block interpreter. */

void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
  gdb_assert (bsd_kvm_supply_pcb == NULL);
  bsd_kvm_supply_pcb = supply_pcb;

  add_target (bsd_kvm_target_info, bsd_kvm_target_open);

  add_prefix_cmd ("kvm", class_obscure, bsd_kvm_cmd, _("\nGeneric command for manipulating the kernel memory interface.
"),
&bsd_kvm_cmdlist, "kvm ", 0, &cmdlist);

#ifndef HAVE_STRUCT_THREAD_TD_PCB
  add_cmd ("proc", class_obscure, bsd_kvm_proc_cmd,
    _("Set current context from proc address"), &bsd_kvm_cmdlist);
#endif

add_cmd ("pcb", class_obscure, bsd_kvm_pcb_cmd,
  /* i18n: PCB == "Process Control Block". */
  _("Set current context from pcb address"), &bsd_kvm_cmdlist);

/* Some notes on the ptid usage on this target.

   The pid field represents the kvm inferior instance. Currently,
   we don't support multiple kvm inferiors, but we start at 1
   anyway. The lwp field is set to != 0, in case the core wants to
   refer to the whole kvm inferior with ptid(1,0,0).

   If kvm is made to export running processes as gdb threads,
   the following form can be used:
   ptid (1, 1, 0) -> kvm inferior 1, in kernel
   ptid (1, 1, 1) -> kvm inferior 1, process 1
   ptid (1, 1, 2) -> kvm inferior 1, process 2
   ptid (1, 1, n) -> kvm inferior 1, process n */

bsd_kvm_ptid = ptid_t (1, 1, 0);
}
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