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1.7 python 2.7.6
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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1.8 openssh 7.6

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* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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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 intnfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020
#if 0
/* the following are currently not implemented */

---

Open Source Used In StarOS 21.1962
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLWRBAND 0x0080
#define POLLRDBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

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

#ifndef _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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 */

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

1.9 ftpd-bsd 0.3.2
1.9.1 Available under license:

#$OpenBSD: Makefile,v 1.5 1999/02/23 23:54:16 art Exp$

PROG=ls
SRCS=cmp.c stat_flags.c ls.c main.c print.c util.c

.include <bsd.prog.mk>
PROG=ftpd
CFLAGS+=-DHASSETPROCTITLE -Dunix
SRCS=ftpd.c ftpcmd.c logutmp.c logwtmp.c popen.c
MAN=ftpd.8
CLEANFILES+=ftpcmd.c y.tab.h

.include <bsd.own.mk>

# our internal version of ls.

LSDIR= ${.CURDIR}/../../bin/ls
.PATH:. ${LSDIR}
SRCS+= ls.c cmp.c print.c stat_flags.c util.c
CFLAGS+= -I${LSDIR}

# not really used
CPPFLAGS+=-DINET6

.if (${SKEY} == "yes")
CFLAGS+=-DSKEY
LDADD+= -lskey
DPADD+= ${LIBSKEY}
.endif

.if (${KERBEROS} == "yes")
SRCS+= klogin.c
.PATH:. ${.CURDIR}/../../usr.bin/login
CFLAGS+= -DKERBEROS
LDADD+= -lkafs -lkrb -ldes
DPADD+= ${LIBKRB} ${LIBKRB} ${LIBKAFS}
.endif

.if (${TCP_WRAPPERS} == "yes")
CFLAGS+=-DTCPWRAPPERS
LDADD+= -lwarp
DPADD+=${LIBWRAP}
.endif

.include <bsd.prog.mk>

#%PAM-1.0
auth required/lib/security/pam_listfile.so item=user sense=deny file=/etc/ftpusers onerr=succeed
auth required/lib/security/pam_pwdb.so shadow nullok
auth required/lib/security/pam_shells.so
account required/lib/security/pam_pwdb.so
A WARNING ABOUT GMT VS LOCALTIME
to people using ftpd-BSD-0.3.0 to serve anonymous FTP
who consider moving to ftpd-BSD-0.3.1

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(This warning should be included in the ftpd-BSD-0.3.1 distribution, but I discovered this after packaging, and I did not want to repack, resign the tarball, rebuild the RPMs and resign them. So it will stay as a separate file.)

The FTP protocol is a bit old and does not specify in what format the file listings returned by the LIST and STAT commands are to be given. Traditionally, the Unix `ls` program is run, so it has become the *de facto* standard for the commands' output format; many programs expect this and parse accordingly.

One thing is certainly not specified, and that is whether the time of last modification returned for the files listed is given in local time (the time in the server's time zone) or universal time (UT, aka Greenwich Mean Time or GMT).

Under Linux, the time format returned by the ctime() function in the (GNU) libc is determined by the contents of the /etc/localtime file which can be overridden by the TZ environment variable if it exists; if nothing is specified (e.g. if the /etc/localtime file does not exist), universal time is used (as is the case if TZ=GMT).

Version 0.3.0 of ftpd-BSD used an external ls program. In the case of anonymous ftp, this ls runs in a chroot()ed environment, and it frequently does not have an /etc/localtime file on which to rely, so it returns the time in GMT. Version 0.3.1, on the other hand, uses an internal ls function, so its time zone is initialized when the ftpd program is run, before the chroot() call is made, and the time zone used is typically the computer's local time. This means that simply moving from ftpd-BSD-0.3.0 to ftpd-BSD-0.3.1 without further precaution will offset all the last modification times returned by the LIST and STAT commands. If you live east of Greenwich, this could result in mirror sites needlessly downloading all files, thinking they have changed; if you live west of Greenwich, this could result in mirror sites not downloading files which they should have.

This may very well turn out to be a non-issue. I am not sure exactly how mirroring programs work. If you do not have any mirror sites, or if you use only non-anonymous FTP, the issue is moot.
One workaround is to start ftPD with TZ=GMT set. This generally means starting inetd with TZ=GMT. Beware, though, that environments tend to be inherited quite far, and even telnetd will have TZ=GMT and if you telnet into your machine you might have universal time instead of local time as you expect (but you can always unset TZ or position it as you like, e.g. TZ=US/Eastern). Another solution is not to use the internal ls command (in which case you might as well stick to version 0.3.0). Finally, you can decide to stick to local time, but I do not recommend this as the clients have no way of knowing the server's time zone (personally I think local time is good only when talking to humans, and everything else should always use universal time: this is the strategy taken by the HTTP protocol for example).

I would appreciate it if FTP experts could tell me more about this problem. I have read about Bernstein's easily parsed LIST format (see http://cr.yp.to/ftp/list/eplf.html for a description), and I wonder whether it is worth implementing (in particular, whether some clients understand it): I might try contacting the OpenBSD people about this.

--
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1.10 iconv 2.17
1.10.1 Available under license :

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Version 3, 29 June 2007

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```
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```

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

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1.11 procps 3.2.6
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1.13 xmlrpc-c 1.06.38

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1.14 antlr-runtime 4.2

1.15 kexec-tools 2.0.14
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1.16 pcre 8.41

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1.22 libvmtools 10.1.5.6677369
1.22.1 Available under license:

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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.24 integration-bdio 18.2.10

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1.25 glib 2.46.2
1.25.1 Available under license:

/****************************************************************************
 * Perl-Compatible Regular Expressions *
****************************************************************************/

/* This is the public header file for the PCRE library, to be #included by
 applications that call the PCRE functions.

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

 ifndef _PCRE_H
 define _PCRE_H

 /* The current PCRE version information. */

 define PCRE_MAJOR     8
 define PCRE_MINOR     31
 define PCRE_PRERELEASE
 define PCRE_DATE      2012-07-06

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/* When an application links to a PCRE DLL in Windows, the symbols that are imported have to be identified as such. When building PCRE, the appropriate export setting is defined in pcre_internal.h, which includes this file. So we don't change existing definitions of PCRE_EXP_DECL and PCRECPP_EXP_DECL. */

#if defined(_WIN32) && !defined(PCRE_STATIC)
  #ifndef PCRE_EXP_DECL
    #define PCRE_EXP_DECL  extern __declspec(dllimport)
  #endif
#if __cplusplus
  #ifndef PCRECPP_EXP_DECL
    #define PCRECPP_EXP_DECL  extern __declspec(dllimport)
  #endif
  #ifndef PCRECPP_EXP_DEFN
    #define PCRECPP_EXP_DEFN  __declspec(dllimport)
  #endif
#endif
#endif

/* By default, we use the standard "extern" declarations. */

#ifndef PCRE_EXP_DECL
  #ifdef __cplusplus
    #define PCRE_EXP_DECL  extern "C"
  #else
    #define PCRE_EXP_DECL  extern
  #endif
#endif
#if __cplusplus
  #ifndef PCRECPP_EXP_DECL
    #define PCRECPP_EXP_DECL  extern
  #endif
  #ifndef PCRECPP_EXP_DEFN
    #define PCRECPP_EXP_DEFN
  #endif
#endif

/* Have to include stdlib.h in order to ensure that size_t is defined; it is needed here for malloc. */

#include <stdlib.h>

/* Allow for C++ users */

#ifndef __cplusplus
extern "C" {

/* Options. Some are compile-time only, some are run-time only, and some are both, so we keep them all distinct. However, almost all the bits in the options word are now used. In the long run, we may have to re-use some of the compile-time only bits for runtime options, or vice versa. In the comments below, "compile", "exec", and "DFA exec" mean that the option is permitted to be set for those functions; "used in" means that an option may be set only for compile, but is subsequently referenced in exec and/or DFA exec. Any of the compile-time options may be inspected during studying (and therefore JIT compiling). */

#define PCRE_CASELESS 0x00000001 /* Compile */
#define PCRE_MULTILINE 0x00000002 /* Compile */
#define PCRE_DOTALL 0x00000004 /* Compile */
#define PCRE_EXTENDED 0x00000008 /* Compile */
#define PCRE_ANCHORED 0x00000010 /* Compile, exec, DFA exec */
#define PCRE_DOLLAR_ENDONLY 0x00000020 /* Compile, used in exec, DFA exec */
#define PCRE_EXTRA 0x00000040 /* Compile */
#define PCRE_NOTBOL 0x00000080 /* Exec, DFA exec */
#define PCRE_NOTEOL 0x00000100 /* Exec, DFA exec */
#define PCRE_UNGREEDY 0x00000200 /* Compile */
#define PCRE_NOTEMPTY 0x00000400 /* Exec, DFA exec */
/* The next two are also used in exec and DFA exec */
#define PCRE_UTF8 0x00000800 /* Compile (same as PCRE_UTF16) */
#define PCRE_UTF16 0x00000800 /* Compile (same as PCRE_UTF8) */
#define PCRE_NO_AUTO_CAPTURE 0x00001000 /* Compile */
/* The next two are also used in exec and DFA exec */
#define PCRE_NO_UTF8_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF16_CHECK) */
#define PCRE_NO_UTF16_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF8_CHECK) */
#define PCRE_AUTO_CALLOUT 0x00004000 /* Compile */
#define PCRE_PARTIAL_SOFT 0x00008000 /* Exec, DFA exec */
#define PCRE_PARTIAL 0x00008000 /* Backwards compatible synonym */
#define PCRE_DFA_SHORTEST 0x00010000 /* DFA exec */
#define PCRE_DFA_RESTART 0x00020000 /* DFA exec */
#define PCRE_FIRSTLINE 0x00040000 /* Compile, used in exec, DFA exec */
#define PCRE_DUPNAMES 0x00080000 /* Compile */
#define PCRE_NEWLINE_CR 0x00100000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_LF 0x00200000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_CRLF 0x00300000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANY 0x00400000 /* Compile, exec, DFA exec */
#define PCRE_BSR_UNICODE 0x01000000 /* Compile, exec, DFA exec */
#define PCRE_BSR_ANYCRLF 0x00500000 /* Compile, exec, DFA exec */
#define PCRE_BSR_UNICODE 0x00800000 /* Compile, exec, DFA exec */
#define PCRE_BSR_UNICODE 0x01000000 /* Compile, exec, DFA exec */
#define PCRE_JAVASCRIPT_COMPAT 0x02000000 /* Compile, used in exec */
#define PCRE_NO_START_OPTIMIZE 0x04000000 /* Compile, exec, DFA exec */
#define PCRE_NO_START_OPTIMISE 0x04000000 /* Synonym */
#define PCRE_PARTIAL_HARD 0x08000000 /* Exec, DFA exec */
#define PCRE_NOTEMPTY_ATSTART 0x10000000 /* Exec, DFA exec */
#define PCRE_UCP 0x20000000 /* Compile, used in exec, DFA exec */

/* Exec-time and get/set-time error codes */

#define PCRE_ERROR_NOMATCH (-1)
#define PCRE_ERROR_NULL (-2)
#define PCRE_ERROR_BADOPTION (-3)
#define PCRE_ERROR_BADMAGIC (-4)
#define PCRE_ERROR_UNKNOWN_OPCODE (-5)
#define PCRE_ERROR_UNKNOWN_NODE (-5) /* For backward compatibility */
#define PCRE_ERROR_NOMEMORY (-6)
#define PCRE_ERROR_NOSUBSTRING (-7)
#define PCRE_ERROR_MATCHLIMIT (-8)
#define PCRE_ERROR_CALLOUT (-9) /* Never used by PCRE itself */
#define PCRE_ERROR_BADUTF8 (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16 (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF8_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_PARTIAL (-12)
#define PCRE_ERROR_BADPARTIAL (-13)
#define PCRE_ERROR_INTERNAL (-14)
#define PCRE_ERROR_BADCOUNT (-15)
#define PCRE_ERROR_DFA_UITEM (-16)
#define PCRE_ERROR_DFA_UCOND (-17)
#define PCRE_ERROR_DFA_UMLIMIT (-18)
#define PCRE_ERROR_DFA_WSSIZE (-19)
#define PCRE_ERROR_DFA_RECURSE (-20)
#define PCRE_ERROR_DFA_RECURSIONLIMIT (-21)
#define PCRE_ERROR_NULLWSLIMIT (-22) /* No longer actually used */
#define PCRE_ERROR_BADNEWLINE (-23)
#define PCRE_ERROR_BADOFFSET (-24)
#define PCRE_ERROR_SHORTUTF8 (-25)
#define PCRE_ERROR_SHORTUTF16 (-25) /* Same for 8/16 */
#define PCRE_ERROR_REUSELOOP (-26)
#define PCRE_ERROR_JIT_STACKLIMIT (-27)
#define PCRE_ERROR_BADMODE (-28)
#define PCRE_ERROR_BADENDIANNESS (-29)
#define PCRE_ERROR_DFA_BADRESTART (-30)

/* Specific error codes for UTF-8 validity checks */

#define PCRE_UTF8_ERR0 0
#define PCRE_UTF8_ERR1 1
#define PCRE_UTF8_ERR2 2
#define PCRE_UTF8_ERR3 3
#define PCRE_UTF8_ERR4 4
#define PCRE_UTF8_ERR5 5
#define PCRE_UTF8_ERR6               6
#define PCRE_UTF8_ERR7               7
#define PCRE_UTF8_ERR8               8
#define PCRE_UTF8_ERR9               9
#define PCRE_UTF8_ERR10              10
#define PCRE_UTF8_ERR11              11
#define PCRE_UTF8_ERR12              12
#define PCRE_UTF8_ERR13              13
#define PCRE_UTF8_ERR14              14
#define PCRE_UTF8_ERR15              15
#define PCRE_UTF8_ERR16              16
#define PCRE_UTF8_ERR17              17
#define PCRE_UTF8_ERR18              18
#define PCRE_UTF8_ERR19              19
#define PCRE_UTF8_ERR20              20
#define PCRE_UTF8_ERR21              21

/* Specific error codes for UTF-16 validity checks */

#define PCRE_UTF16_ERR0              0
#define PCRE_UTF16_ERR1              1
#define PCRE_UTF16_ERR2              2
#define PCRE_UTF16_ERR3              3
#define PCRE_UTF16_ERR4              4

/* Request types for pcre_fullinfo() */

#define PCRE_INFO_OPTIONS            0
#define PCRE_INFO_SIZE               1
#define PCRE_INFO_CAPTURECOUNT       2
#define PCRE_INFO_BACKREFMAX         3
#define PCRE_INFO_FIRSTBYTE          4
#define PCRE_INFO_FIRSTCHAR          4  /* For backwards compatibility */
#define PCRE_INFO_FIRSTTABLE         5
#define PCRE_INFO_LASTLITERAL        6
#define PCRE_INFO_NAMEENTRYSIZE      7
#define PCRE_INFO_NAMECOUNT          8
#define PCRE_INFO_NAMETABLE          9
#define PCRE_INFO_STUDYSIZE         10
#define PCRE_INFO_DEFAULT_TABLES    11
#define PCRE_INFO_OKPARTIAL         12
#define PCRE_INFO_JCHANGED          13
#define PCRE_INFO_HASCRORLF         14
#define PCRE_INFO_MINLENGTH         15
#define PCRE_INFO_JIT               16
#define PCRE_INFO_JITSIZE           17
#define PCRE_INFO_MAXLOOKBEHIND     18
/* Request types for pcre_config(). Do not re-arrange, in order to remain compatible. */

#define PCRE_CONFIG_UTF8 0
#define PCRE_CONFIG_NEWLINE 1
#define PCRE_CONFIG_LINK_SIZE 2
#define PCRE_CONFIG_POSIX_MALLOC_THRESHOLD 3
#define PCRE_CONFIG_MATCH_LIMIT 4
#define PCRE_CONFIG_STACKRECURSE 5
#define PCRE_CONFIG_UNICODE_PROPERTIES 6
#define PCRE_CONFIG_MATCH_LIMIT_RECURSION 7
#define PCRE_CONFIG_BSR 8
#define PCRE_CONFIG_JIT 9
#define PCRE_CONFIG_UTF16 10
#define PCRE_CONFIG_JITTARGET 11

/* Request types for pcre_study(). Do not re-arrange, in order to remain compatible. */

#define PCRE_STUDY_JIT_COMPILE 0x0001
#define PCRE_STUDY_JIT_PARTIAL_SOFT_COMPILE 0x0002
#define PCRE_STUDY_JIT_PARTIAL_HARD_COMPILE 0x0004

/* Bit flags for the pcre[16]_extra structure. Do not re-arrange or redefine these bits, just add new ones on the end, in order to remain compatible. */

#define PCRE_EXTRA_STUDY_DATA 0x0001
#define PCRE_EXTRA_MATCH_LIMIT 0x0002
#define PCRE_EXTRA_CALLOUT_DATA 0x0004
#define PCRE_EXTRA_TABLES 0x0008
#define PCRE_EXTRA_MATCH_LIMIT_RECURSION 0x0010
#define PCRE_EXTRA_MARK 0x0020
#define PCRE_EXTRA_EXECUTABLE_JIT 0x0040

/* Types */

struct real_pcre;        /* declaration; the definition is private */
typedef struct real_pcre pcre;

struct real_pcre16;      /* declaration; the definition is private */
typedef struct real_pcre16 pcre16;

struct real_pcre_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre_jit_stack pcre_jit_stack;

struct real_pcre16_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre16_jit_stack pcre16_jit_stack;
/* If PCRE is compiled with 16 bit character support, PCRE_UCHAR16 must contain a 16 bit wide signed data type. Otherwise it can be a dummy data type since pcre16 functions are not implemented. There is a check for this in pcre_internal.h. */
#ifndef PCRE_UCHAR16
#define PCRE_UCHAR16 unsigned short
#endif

#ifndef PCRE_SPTR16
#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif

/* When PCRE is compiled as a C++ library, the subject pointer type can be replaced with a custom type. For conventional use, the public interface is a const char *. */
#ifndef PCRE_SPTR
#define PCRE_SPTR const char *
#endif

/* The structure for passing additional data to pcre_exec(). This is defined in such a way as to be extensible. Always add new fields at the end, in order to remain compatible. */
typedef struct pcre_extra {
    unsigned long int flags; /* Bits for which fields are set */
    void *study_data; /* Opaque data from pcre_study() */
    unsigned long int match_limit; /* Maximum number of calls to match() */
    void *callout_data; /* Data passed back in callouts */
    const unsigned char *tables; /* Pointer to character tables */
    unsigned long int match_limit_recursion; /* Max recursive calls to match() */
    unsigned char **mark; /* For passing back a mark pointer */
    void *executable_jit; /* Contains a pointer to a compiled jit code */
} pcre_extra;

/* Same structure as above, but with 16 bit char pointers. */
typedef struct pcre16_extra {
    unsigned long int flags; /* Bits for which fields are set */
    void *study_data; /* Opaque data from pcre_study() */
    unsigned long int match_limit; /* Maximum number of calls to match() */
    void *callout_data; /* Data passed back in callouts */
    const unsigned char *tables; /* Pointer to character tables */
    unsigned long int match_limit_recursion; /* Max recursive calls to match() */
    PCRE_UCHAR16 **mark; /* For passing back a mark pointer */
    void *executable_jit; /* Contains a pointer to a compiled jit code */
} pcre16_extra;

/* The structure for passing out data via the pcre_callout_function. We use a
struct pcre_callout_block {
    int version; /* Identifies version of block */
    int callout_number; /* Number compiled into pattern */
    int *offset_vector; /* The offset vector */
    PCRE_SPTR subject; /* The subject being matched */
    int subject_length; /* The length of the subject */
    int start_match; /* Offset to start of this match attempt */
    int current_position; /* Where we currently are in the subject */
    int capture_top; /* Max current capture */
    int capture_last; /* Most recently closed capture */
    void *callout_data; /* Data passed in with the call */
}

typedef struct pcre16_callout_block {
    int version; /* Identifies version of block */
    int callout_number; /* Number compiled into pattern */
    int *offset_vector; /* The offset vector */
    PCRE_SPTR16 subject; /* The subject being matched */
    int subject_length; /* The length of the subject */
    int start_match; /* Offset to start of this match attempt */
    int current_position; /* Where we currently are in the subject */
    int capture_top; /* Max current capture */
    int capture_last; /* Most recently closed capture */
    void *callout_data; /* Data passed in with the call */
} pcre16_callout_block;

/* Indirection for store get and free functions. These can be set to
alternative malloc/free functions if required. Special ones are used in the
non-recursive case for "frames". There is also an optional callout function
that is triggered by the (?) regex item. For Virtual Pascal, these definitions
have to take another form. */

#ifndef VPCOMPAT
PCRE_EXP_DECL void *(*pcre_malloc)(size_t);
PCRE_EXP_DECL void (*pcre_free)(void *);
PCRE_EXP_DECL void *(*pcre_stack_malloc)(size_t);
PCRE_EXP_DECL void (*pcre_stack_free)(void *);
PCRE_EXP_DECL int (*pcre_callout)(pcre_callout_block *);

PCRE_EXP_DECL void *(*pcre16_malloc)(size_t);
PCRE_EXP_DECL void (*pcre16_free)(void *);
PCRE_EXP_DECL void *(*pcre16_stack_malloc)(size_t);
PCRE_EXP_DECL void (*pcre16_stack_free)(void *);
PCRE_EXP_DECL int (*pcre16_callout)(pcre16_callout_block *);
#endif /* VPCOMPAT */

/* User defined callback which provides a stack just before the match starts. */
typedef pcre_jit_stack *(*pcre_jit_callback)(void *);
typedef pcre16_jit_stack *(*pcre16_jit_callback)(void *);

/* Exported PCRE functions */

PCRE_EXP_DECL pcre *pcre_compile(const char *, int, const char **, int *,
const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
const unsigned char *);
PCRE_EXP_DECL pcre *pcre_compile2(const char *, int, int *, const char **,
int *, const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *, const char **,
int *, const unsigned char *);
PCRE_EXP_DECL int pcre_config(int, void *);
PCRE_EXPDECL int pcre16_config(int, void *);
PCRE_EXPDECL int pcre_copy_named_substring(const pcre *, const char *,

int *, int, const char *, char *, int);
PCRE_EXP_DECL int pcre16_copy_named_substring(const pcre16 *, PCRE_SPTR16,
int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_copy_substring(const char *, int *, int, int,
char *, int);
PCRE_EXP_DECL int pcre16_copy_substring(PCRE_SPTR16, int *, int, int,
PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_dfa_exec(const pcre *, const pcre_extra *,
const char *, int, int, int *, int *, int *, int);
PCRE_EXP_DECL int pcre16_dfa_exec(const pcre16 *, const pcre16_extra *,
PCRE_SPTR16, int, int, int *, int *, int *, int);
PCRE_EXP_DECL int pcre_exec(const pcre *, const pcre_extra *, PCRE_SPTR,
int, int, int *, int);
PCRE_EXP_DECL int pcre16_exec(const pcre16 *, const pcre16_extra *,
PCRE_SPTR16, int, int, int *, int);
PCRE_EXP_DECL void pcre_free_substring(const char *);
PCRE_EXP_DECL void pcre16_free_substring(PCRE_SPTR16);
PCRE_EXP_DECL void pcre_free_substring_list(const char **);
PCRE_EXP_DECL void pcre16_free_substring_list(PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_fullinfo(const pcre *, const pcre_extra *, int,
void *);
PCRE_EXP_DECL int pcre16_fullinfo(const pcre16 *, const pcre16_extra *, int,
void *
);
PCRE_EXPDECL void pcre16_free_study(pcre16_extra *);
PCRE_EXPDECL const char *pcre16_version(void);
PCRE_EXPDECL const char *pcre16_version(void);

/* Utility functions for byte order swaps. */
PCRE_EXPDECL int pcre_pattern_to_host_byte_order(pcre *, pcre_extra *,
    const unsigned char *);
PCRE_EXPDECL int pcre16_pattern_to_host_byte_order(pcre16 *, pcre16_extra *,
    const unsigned char *);
PCRE_EXPDECL int pcre16_utf16_to_host_byte_order(PCRE_UCHAR16 *,
    PCRE_SPTR16, int, int *, int);

/* JIT compiler related functions. */
PCRE_EXPDECL pcre_jit_stack *pcre_jit_stack_alloc(int, int);
PCRE_EXPDECL pcre16_jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXPDECL void pcre_jit_stack_free(pcre_jit_stack *);
PCRE_EXPDECL void pcre16_jit_stack_free(pcre16_jit_stack *);
PCRE_EXPDECL void pcre_assign_jit_stack(pcre_extra *,
    pcre_jit_callback, void *);
PCRE_EXPDECL void pcre16_assign_jit_stack(pcre16_extra *,
    pcre16_jit_callback, void *);

#ifdef __cplusplus
} /* extern "C" */
#endif
#endif /* End of pcre.h */

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 */

/* Modified by the GLib Team and others 1997-2000. See the AUTHORS file for a list of people on the GLib Team. See the ChangeLog file for a list of changes. These files are distributed with GLib at ftp://ftp.gtk.org/pub/gtk/.
 */

#ifndef __G_LIB_H__
#define __G_LIB_H__
#define __GLIB_H_INSIDE__

#include <glib/galloca.h>
#include <glib/garray.h>
#include <glib/gasyncqueue.h>
#include <glib/gatomic.h>
#include <glib/gbacktrace.h>
#include <glib/gbase64.h>
#include <glib/gbitlock.h>
#include <glib/gbookmarkfile.h>
#include <glib/gbytes.h>
#include <glib/gcharset.h>
#include <glib/gchecksum.h>
#include <glib/gconvert.h>
#include <glib/gdataset.h>
#include <glib/gdate.h>
#include <glib/gdatetime.h>
#include <glib/gdir.h>
#include <glib/genviron.h>
#include <glib/gerror.h>
#include <glib/gfileutils.h>
#include <glib/ggettext.h>
#include <glib/ghash.h>
#include <glib/ghmac.h>
#include <glib/ghook.h>
#include <glib/ghostutils.h>
#include <glib/giochannel.h>
#include <glib/gkeyfile.h>
#include <glib/glist.h>
#include <glib/gmacros.h>
#include <glib/gmain.h>
#include <glib/gmappedfile.h>
#include <glib/gmarkup.h>
#include <glib/gmem.h>
#include <glib/gmessages.h>
#include <glib/gnode.h>
#include <glib/goption.h>
#include <glib/gpattern.h>
#include <glib/gpoll.h>
#include <glib/gprimes.h>
#include <glib/gqsort.h>
#include <glib/gquark.h>
#include <glib/gqueue.h>
#include <glib/grand.h>
#include <glib/gregex.h>
#include <glib/gscanner.h>
#include <glib/gsequence.h>
#include <glib/gshell.h>
#include <glib/gslice.h>
#include <glib/gslist.h>
#include <glib/gspawn.h>
#include <glib/gstrfuncs.h>
#include <glib/gstring.h>
#include <glib/gstringchunk.h>
#include <glib/gtestutils.h>
#include <glib/gthread.h>
#include <glib/gthreadpool.h>
#include <glib/gtimer.h>
#include <glib/gtimezone.h>
#include <glib/gtrashstack.h>
#include <glib/gtree.h>
#include <glib/gtypes.h>
#include <glib/gunicode.h>
#include <glib/gurifuncs.h>
#include <glib/gutils.h>
#include <glib/gvarianttype.h>
#include <glib/gvariant.h>
#include <glib/gversion.h>
#include <glib/gversionmacros.h>
#ifdef G_PLATFORM_WIN32
#include <glib/gwin32.h>
#endif
#ifndef G_DISABLE_DEPRECATED
#include <glib/deprecated/gallocator.h>
#include <glib/deprecated/gcache.h>
#include <glib/deprecated/gcompletion.h>
#include <glib/deprecated/gmain.h>
#include <glib/deprecated/grel.h>
#include <glib/deprecated/gthread.h>
#endif /* G_DISABLE_DEPRECATED */
#endif /* __G_LIB_H__ */

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End

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Version 2, June 1991

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1.26 sysv-init 2.78-4
1.26.1 Available under license :

This is the Debian GNU/Linux prepackaged version of System V Init. Init was written by Miquel van Smoorenburg <miquels@drinkel.cistron.nl>.

This package was put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org> integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> has integrated debian support into the base package.

Changes:
29-January-1995 Bruce Perens <Bruce@Pixar.com>
   Added Debian GNU/Linux package maintenance system files.
25-February-1995 Ian Murdock <imurdock@debian.org>
   Finished integration of Sys V Init into the base system.
28-December-1995 Miquel van Smoorenburg <miquels@cistron.nl>
   Added debian support to sysvinit.
   For further changes see the ChangeLog file.

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1.27 setserial 2.17

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Ty Coon, President of Vice

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#!/bin/sh
# Attempt to guess a canonical system name.
# 2011, 2012 Free Software Foundation, Inc.

timestamp='2012-08-14'

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# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.

# Originally written by Per Bothner. Please send patches (context
# diff format) to <config-patches@gnu.org> and include a ChangeLog
# entry.
#
# This script attempts to guess a canonical system name similar to
# config.sub. If it succeeds, it prints the system name on stdout, and
# exits with 0. Otherwise, it exits with 1.
#
# You can get the latest version of this script from:
# http://git.savannah.gnu.org/gitweb/?p=config.git;a=blob_plain;f=config.guess;hb=HEAD

me=`echo "$0" | sed -e 's,.*/,,'`

usage="\$
Usage: $0 [OPTION]

Output the configuration name of the system "$me" is run on.

Operation modes:
-h, --help         print this help, then exit
-t, --time-stamp   print date of last modification, then exit
-v, --version      print version number, then exit

Report bugs and patches to <config-patches@gnu.org>.

version="\nGNU config.guess ($timestamp)

Originally written by Per Bothner.
Free Software Foundation, Inc.

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help="
Try \$me --help' for more information."

# Parse command line
while test $# -gt 0 ; do
  case $1 in
  --time-stamp | --time* | -t )
    echo "$timestamp" ; exit ;;
  --version | -v )
    echo "$version" ; exit ;;
  --help | --h* | -h )
    echo "$usage" ; exit ;;
  -- )  # Stop option processing
    shift; break ;;
  - )# Use stdin as input.
    break ;;
  -*
    echo "$me: invalid option $1$help" >&2
    exit 1 ;;
  * )
    break ;;
esac
done

if test $# != 0; then
  echo "$me: too many arguments$help" >&2
  exit 1
fi

trap 'exit 1' 1 2 15

---
# CC_FOR_BUILD -- compiler used by this script. Note that the use of a
# compiler to aid in system detection is discouraged as it requires
# temporary files to be created and, as you can see below, it is a
# headache to deal with in a portable fashion.

# Historically, `CC_FOR_BUILD' used to be named `HOST_CC'. We still
# use `HOST_CC' if defined, but it is deprecated.

# Portable tmp directory creation inspired by the Autoconf team.

set_cc_for_build='
trap "exitcode=$?; (rm -f $tmpfiles 2>/dev/null; rmdir $tmp 2>/dev/null; exit 1" 1 2 13 15 ;
: ${TMPDIR=/tmp} ;
{ tmp=`(umask 077 && mktemp -d "$TMPDIR/cgXXXXXX") 2>/dev/null` && test -n "$tmp" && test -d "$tmp" ;
} ||
{ test -n "$RANDOM" && tmp=$TMPDIR/cg-$RANDOM && (umask 077 && mkdir $tmp) ; } ||
{ tmp=$TMPDIR/cg-$RANDOM && (umask 077 && mkdir $tmp) && echo "Warning: creating insecure temp directory"
>&2 ; } ||
{ echo "$me: cannot create a temporary directory in $TMPDIR" >&2 ; exit 1 ; }
;
dummy=$tmp/dummy ;
tmpfiles="$dummy.c $dummy.o $dummy.rel $dummy" ;
case $CC_FOR_BUILD,$HOST_CC,$CC in
,,)    echo "int x;" > $dummy.c ;
for c in cc gcc c89 c99 ; do
if ($c -c -o $dummy.o $dummy.c) >/dev/null 2>&1 ; then
  CC_FOR_BUILD="$c"; break ;
fi ;
done ;
if test x"$CC_FOR_BUILD" = x ; then
  CC_FOR_BUILD=no_compiler_found ;
fi
;,
;,
;,
cc) CC_FOR_BUILD=$CC ;;
+,+*) CC_FOR_BUILD=$HOST_CC ;;
esac ; set_cc_for_build= ;'

# This is needed to find uname on a Pyramid OSx when run in the BSD universe.
# (ghazi@noc.rutgers.edu 1994-08-24)
if (test -f /.attbin/uname) >/dev/null 2>&1 ; then
  PATH=$PATH:/.attbin ; export PATH
fi

UNAME_MACHINE=`(uname -m) 2>/dev/null` || UNAME_MACHINE=unknown
UNAME_RELEASE=`(uname -r) 2>/dev/null` || UNAMERELEASE=unknown
UNAME_SYSTEM=`(uname -s) 2>/dev/null` || UNAME_SYSTEM=unknown
UNAME_VERSION=`(uname -v) 2>/dev/null` || UNAME_VERSION=unknown
# Detect uclibc systems.

LIBC="gnu"
if [-f /usr/include/bits/uClibc_config.h]
then
LIBC=uclibc
if [-n `grep "#define __UCLIBC_CONFIG_VERSION__" /usr/include/bits/uClibc_config.h`]
then
UCLIBC_SUBVER=`sed -n "/#define __UCLIBC_CONFIG_VERSION__/s///p" /usr/include/bits/uClibc_config.h`
LIBC=$LIBC$UCLIBC_SUBVER
fi
fi

# Note: order is significant - the case branches are not exclusive.

case "$UNAME_MACHINE:$UNAME_SYSTEM:$UNAME_RELEASE:$UNAME_VERSION" in
  *:NetBSD:*:*)
  # NetBSD (nbsd) targets should (where applicable) match one or
  # more of the tuples: *-*-netbsdelf*, *-*-netbsd*out*,
  # *-*netbsdcoff* and *-*netbsd*. For targets that recently
  # switched to ELF, *-*netbsd* would select the old
  # object file format. This provides both forward
  # compatibility and a consistent mechanism for selecting the
  # object file format.
  
  # Note: NetBSD doesn't particularly care about the vendor
  # portion of the name. We always set it to "unknown".
  sysctl="sysctl -n hw.machine_arch"
  UNAME_MACHINE_ARCH="$(/sbin/$sysctl 2>/dev/null ||
    /usr/sbin/$sysctl 2>/dev/null || echo unknown)"
  case "$UNAME_MACHINE_ARCH" in
    armeb) machine=armeb-unknown ;;
    arm*) machine=arm-unknown ;;
    sh3el) machine=shl-unknown ;;
    sh3eb) machine=sh-unknown ;;
    sh5el) machine=sh5le-unknown ;;
    *) machine=$UNAME_MACHINE_ARCH-unknown ;;
  esac
  # The Operating System including object format, if it has switched
  # to ELF recently, or will in the future.
  case "$UNAME_MACHINE_ARCH" in
    arm*[i386|m68k|ns32k|sh3]*[spar|vax]
  eval $set_cc_for_build
  if echo __ELF__ | $CC_FOR_BUILD -E - 2>/dev/null |
    grep -q __ELF__
  then
    # Once all utilities can be ECOFF (netbsdcoff) or a.out (netbsd*out).
    # Return netbsd for either. FIX?
os=netbsd
else
  os=netbsdelf
fi
;
 *
) os=netbsd
;
 esac
#
# The OS release
# Debian GNU/NetBSD machines have a different userland, and
# thus, need a distinct triplet. However, they do not need
# kernel version information, so it can be replaced with a
# suitable tag, in the style of linux-gnu.
case "${UNAME_VERSION}" in
  Debian*)
    release='-gnu'
    :
    *)
      release=`echo ${UNAME_RELEASE}|sed -e 's/-/_/g'`
      :
esac
#
# Since CPU_TYPE-MANUFACTURER-KERNEL-OPERATING_SYSTEM:
# contains redundant information, the shorter form:
# CPU_TYPE-MANUFACTURER-OPERATING_SYSTEM is used.
echo "${machine}-${os}${release}"
echo "$machine-$os${release}"
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case $UNAME_RELEASE in
  *4.0)
    UNAME_RELEASE="/usr/sbin/sizer -v | awk '{print $3}'`
    ;;
  *5.*)
    UNAME_RELEASE="/usr/sbin/sizer -v | awk '{print $4}'`
    ;;
esac

# According to Compaq, /usr/sbin/psrinfo has been available on
# OSF/1 and Tru64 systems produced since 1995. I hope that
# covers most systems running today. This code pipes the CPU
# types through head -n 1, so we only detect the type of CPU 0.
ALPHA_CPU_TYPE="/usr/sbin/psrinfo -v | sed -n -e 's/^  The alpha \([^]*\) processor.*$/\1/p' | head -n 1` case "$ALPHA_CPU_TYPE" in
  "EV4 (21064)"
    UNAME_MACHINE="alpha" ;;
    "EV4.5 (21064)"
    UNAME_MACHINE="alpha" ;;
    "LCA4 (21066/21068)"
    UNAME_MACHINE="alpha" ;;
    "EV5 (21164)"
    UNAME_MACHINE="alphaev5" ;;
    "EV5.6 (21164A)"
    UNAME_MACHINE="alphaev5" ;;
    "EV5.6 (21164PC)"
    UNAME_MACHINE="alphapca56" ;;
    "EV5.7 (21164PC)"
    UNAME_MACHINE="alphapca57" ;;
    "EV6 (21264)"
    UNAME_MACHINE="alphaev6" ;;
    "EV6.7 (21264A)"
    UNAME_MACHINE="alphaev67" ;;
    "EV6.8CB (21264C)"
    UNAME_MACHINE="alphaev68" ;;
    "EV6.8AL (21264B)"
    UNAME_MACHINE="alphaev68" ;;
    "EV6.8CX (21264D)"
    UNAME_MACHINE="alphaev68" ;;
    "EV6.9A (21264/EV69A)"
    UNAME_MACHINE="alphaev69" ;;
    "EV7 (21364)"
    UNAME_MACHINE="alphaev7" ;;
    "EV7.9 (21364A)"
    UNAME_MACHINE="alphaev79" ;;
esac

# A Pn.n version is a patched version.
# A Vn.n version is a released version.
# A Tn.n version is a released field test version.
# A Xn.n version is an unreleased experimental baselevel.
# 1.2 uses "1.2" for uname -r.
```
echo ${UNAME_MACHINE}-dec-osf echo ${UNAME_RELEASE} | sed -e 's/^[PVTX]/' | tr 'ABCDEFGHIJKLMNOPQRSTUVWXYZ' 'abcdefghijklmnopqrstuvwxyz'
```  
# Reset EXIT trap before exiting to avoid spurious non-zero exit code.
```
exitcode=$?
trap "0
exit $exitcode ;;
```

```
Alpha*:Windows_NT*:*)
```  
# How do we know it's Interix rather than the generic POSIX subsystem?
# Should we change UNAME_MACHINE based on the output of uname instead
# of the specific Alpha model?
```
echo alpha-pc-interix
```  
```
21064:Windows_NT:50:3)
```  
```
echo alpha-dec-winnt3.5
```  
```
exit ;;
Amiga*:UNIX_System_V:4.0:*)
```  
```
echo m68k-unknown-sysv4
```  
```
exit ;;
*:Amiga[Oo][Ss]:*:*)
```  
```
echo ${UNAME_MACHINE}-unknown-amigaos
```  
```
exit ;;
*:Morph[Oo][Ss]:*:*)
```  
```
echo ${UNAME_MACHINE}-unknown-morphos
```  
```
exit ;;
*:OS/390:*:*)
```  
```
echo i370-ibm-openeditition
```  
```
exit ;;
*:z/VM:*:*)
```  
```
echo s390-ibm-zvmoe
```  
```
exit ;;
*:OS400:*:*)
```  
```
echo powerpc-ibm-os400
```  
```
exit ;;
arm:RISC*:1.[012]*:arm:riscix:1.[012]:*)
```  
```
echo arm-acorn-riscix${UNAME_RELEASE}
```  
```
exit ;;
arm:riscos:*:arm:RISCOS:*:*)
```
```
echo arm-unknown-riscos
```  
```
exithppa1.1-hitachi-hiuxmlpp
```
```
exit ;;
Pyramid*:OSx:*:*) | MIS*:OSx:*: | MIS*:SMP_DC-OSx:*:*)
```  
```
# akec@wpdis03.wpafb.af.mil (Earle F. Ake) contributed MIS and NILE.
if test ""/bin/universe) 2>/dev/null"" = att ; then
```
echo pyramid-pyramid-sysv3
else
echo pyramid-pyramid-bsd
fi
exit ;;
    NILE*:*:*:dcosx)
echo pyramid-pyramid-svr4
exit ;;
    DRS?6000:unix:4.0:6*)
echo sparc-icl-nx6
exit ;;
    DRS?6000:UNIX_SV:4.2*:7* | DRS?6000:isis:4.2*:7*)
case `/usr/bin/uname -p` in
    sparc) echo sparc-icl-nx7; exit ;;
esac ;;
    s390x:SunOS:*:*)
echo ${UNAME_MACHINE}-ibm-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[.]*//'
exit ;;
    sun4H:SunOS:5:*:*)
echo sparc-hal-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[.]*//'
exit ;;
    sun4*:SunOS:5:*:* | tadpole*:SunOS:5:*:*)
echo sparc-sun-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[.]*//'
exit ;;
    i86pc:AuroraUX:5.*:* | i86xen:AuroraUX:5.*:*)
echo i386-pc-auroraux${UNAME_RELEASE}
exit ;;
    i86pc:SunOS:5:*:* | i86xen:SunOS:5:*:*)
eval $set_cc_for_build
SUN_ARCH="i386"
# If there is a compiler, see if it is configured for 64-bit objects.
# Note that the Sun cc does not turn __LP64__ into 1 like gcc does.
# This test works for both compilers.
if [ "$CC_FOR_BUILD" != 'no_compiler_found' ]; then
    if (echo '#ifdef __amd64'; echo IS_64BIT_ARCH; echo '#endif') | 
    (CCOPTS= $CC_FOR_BUILD -E - 2>/dev/null) | 
    grep IS_64BIT_ARCH >/dev/null
    then
    SUN_ARCH="x86_64"
    fi
fi
echo ${SUN_ARCH}-pc-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[.]*//'
exit ;;
    sun4*:SunOS:6:*:*)
# According to config.sub, this is the proper way to canonicalize
# SunOS6.  Hard to guess exactly what SunOS6 will be like, but
# it's likely to be more like Solaris than SunOS4.
echo sparc-sun-solaris3`echo ${UNAME_RELEASE}|sed -e 's/[.]*//'
exit ;;
sun4*:SunOS:*:*)
case ""/usr/bin/arch -k" in
   Series*|S4*)
   UNAME_RELEASE=`uname -v`
   ;;
case `"/bin/arch"` in
   sun3*:SunOS:*:*)
   echo m68k-sun-sunos$[UNAME_RELEASE]
   exit ;;
sun*:*:4.2BSD:*)
   UNAME_RELEASE=`$(sed 1q /etc/motd | awk '{print substr($5,1,3)}') 2>/dev/null`
   test "x${UNAME_RELEASE}" = "x" && UNAME_RELEASE=3
   case `"/bin/arch"` in
   sun3)
   echo m68k-sun-sunos$[UNAME_RELEASE]
   ;;
sun4)
   echo sparc-sun-sunos$[UNAME_RELEASE]
   ;;
case `"/bin/arch"` in
aushp:SunOS:*:*)
   echo sparc-auspex-sunos$[UNAME_RELEASE]
   exit ;;
  esac
  exit ;;
aushp:SunOS:*:*)
  echo sparc-auspex-sunos$[UNAME_RELEASE]
  exit ;;
case `"/bin/arch"` in
# The situation for MiNT is a little confusing. The machine name
# can be virtually everything (everything which is not
# "atarist" or "atariste" at least should have a processor
# > m68000). The system name ranges from "MiNT" over "FreeMiNT"
# to the lowercase version "mint" (or "freemint"). Finally
# the system name "TOS" denotes a system which is actually not
# MiNT. But MiNT is downward compatible to TOS, so this should
# be no problem.
atarist[e]*:MiNT:*:* | atarist[e]*:mint:*:* | atarist[e]*:TOS:*:*)
  echo m68k-atari-mint$[UNAME_RELEASE]
  exit ;;
atarist*:MiNT:*:* | atarist*:mint:*:* | atarist*:TOS:*:*)
  echo m68k-atari-mint$[UNAME_RELEASE]
  exit ;;
*falcon*:MiNT:*:* | *falcon*:mint:*:* | *falcon*:TOS:*:*)
  echo m68k-atari-mint$[UNAME_RELEASE]
  exit ;;
milan*:MiNT:*:* | milan*:mint:*:* | milan*:TOS:*:*)
  echo m68k-milan-mint$[UNAME_RELEASE]
  exit ;;
hades*:MiNT:*:* | hadades*:mint:*:* | *hades*:TOS:*:*)
echo m68k-hades-mint${UNAME_RELEASE}
exit ::
   
echo m68k-unknown-mint${UNAME_RELEASE}
exit ::
   
m68k:macbent:*:*

powerpc:macbent:*:*

echo powerpc-apple-macbent${UNAME_RELEASE}
exit ::
   
RISC*:Mach:*:*

echo m68k-apple-macbent${UNAME_RELEASE}
exit ::
   
RISC*:ULTRIX:*:*

echo m68k:dec-mach_${UNAME_RELEASE}
exit ::
   
VAX*:ULTRIX:*:*

echo m68k:dec-ultrix${UNAME_RELEASE}
exit ::
   
2020:CLIX:*:* | 2430:CLIX:*:*

echo clipper-intergraph-clipx${UNAME_RELEASE}
exit ::
   
mips:U:MIP | mips:*:*:RISCos)
eval $set_cc_for_build
sed 's/^	//' << EOF >$dummy.c
#endif
#include <stdio.h> /* for printf() prototype */
int main (int argc, char *argv[]) {
   
#else
int main (argc, argv) int argc; char *argv[]; {
   
#define _cplusplus
#include <stdio.h> /* for printf() prototype */
int main (int argc, char *argv[]) {
   
#endif
   #if defined (host_mips) && defined (MIPSEB)
   #elif defined (SYSTYPE_SYSV)
   printf ("mips-mips-riscos%ssysv\n", argv[1]); exit (0);
   #elif defined (SYSTYPE_SVR4)
   printf ("mips-mips-riscos%ssvr4\n", argv[1]); exit (0);
   #endif
   #elif defined (SYSTYPE_BSD43) || defined(SYSTYPE_BSD)
   printf ("mips-mips-riscos%sbsd\n", argv[1]); exit (0);
   #endif
   exit (-1);
}
EOF
$CC_FOR_BUILD -o $dummy $dummy.c &&
dummyarg=`echo "${UNAME_RELEASE}" | sed -n '/[0-9]*/p'` &&
SYSTEM_NAME=`$dummy $dummyarg` &&
{ echo "$SYSTEM_NAME"; exit; }
echo mips-mips-riscos${UNAME_RELEASE}
exit ;;
   Motorola:PowerMAX_Os:*:*)
echo powerpc-motorola-powermax
exit ;;
   Motorola:*:4.3:PL8-*)
echo powerpc-harris-powermax
exit ;;
   Night_Hawk:.*:*:PowerMAX_Os | Synergy:PowerMAX_Os:*:*)
echo powerpc-harris-powermax
exit ;;
   Night_Hawk:Power_UNIX:*:*)
echo powerpc-harris-powerunix
exit ;;
   m88k:cx/ux:7:*:*)
   echo m88k-harris-cxux7
exit ;;
   m88k:*:4*:R4*)
   echo m88k-motorola-sysv4
exit ;;
   m88k:*:3*:R3*)
   echo m88k-motorola-sysv3
exit ;;
   AViiON:dgux:*:*)
   # DG/UX returns AViiON for all architectures
UNAME_PROCESSOR=`/usr/bin/uname -p`
if [ $UNAME_PROCESSOR = mc88100 ] || [ $UNAME_PROCESSOR = mc88110 ]
then
   if [ $(TARGET_BINARY_INTERFACE) = m88kdguxelfx ] || [ $(TARGET_BINARY_INTERFACE) = x ]
then
   echo m88k-dg-dgux${UNAME_RELEASE}
else
   echo m88k-dg-dguxbcs${UNAME_RELEASE}
fi
else
   echo i586-dg-dgux${UNAME_RELEASE}
fi
exit ;;
M88*:DolphinOS:*:*)# DolphinOS (SVR3)
echo m88k-dolphin-sysv3
exit ;;
M88*:R3:*)
# Delta 88k system running SVR3
echo m88k-motorola-sysv3
exit ;;
XD88*:*:*:*) # Tektronix XD88 system running UTekV (SVR3)
echo m88k-tektronix-sysv3
exit ;;

Tek43[0-9][0-9]:UTek:*:*) # Tektronix 4300 system running UTek (BSD)
echo m68k-tektronix-bsd
exit ;;

*:IRIX*:*:*)
echo mips-sgi-irix`echo ${UNAME_RELEASE}|sed -e 's/-/_/g'`
exit ;;

?????????:AIX?:[12].1:2)   # AIX 2.2.1 or AIX 2.1.1 is RT/PC AIX.
echo romp-ibm-aix     # uname -m gives an 8 hex-code CPU id
exit ;;               # Note that: echo "'`uname -s`'" gives 'AIX'
i*86:AIX*:*)
echo i386-ibm-aix
exit ::

ia64:AIX*:*)
if [-x /usr/bin/oslevel ] ; then
  IBM_REV=/usr/bin/oslevel
else
  IBM_REV=${UNAME_VERSION}.${UNAME_RELEASE}
fi

echo ${UNAME_MACHINE}-ibm-aix${IBM_REV}
exit ::

*:AIX:2:3)
if grep bos325 /usr/include/stdio.h >/dev/null 2>&1; then
  eval $set_cc_for_build
  sed 's/\t/\t/' << EOF >$dummy.c
  #include <sys/systemcfg.h>
  #include <sys/systemconfig.h>

  main()
  {
    if (!__power_pc())
      exit(1);
    puts("powerpc-ibm-aix3.2.5");
    exit(0);
  }
EOF
  if $CC_FOR_BUILD -o $dummy $dummy.c && SYSTEM_NAME=`$dummy`
    then
    echo "$SYSTEM_NAME"
    else
    echo rs6000-ibm-aix3.2.5
    fi
elif grep bos324 /usr/include/stdio.h >/dev/null 2>&1; then
  echo rs6000-ibm-aix3.2.4
else
  echo rs6000-ibm-aix3.2
  fi
exit
*:AIX:*:[4567])
IBM_CPU_ID="/usr/sbin/lsdev -C -c processor -S available | sed 1q | awk '{ print $1 }'"
if /usr/sbin/lsattr -El $[IBM_CPU_ID] \ grep 'POWER' >/dev/null 2>&1; then
IBM_ARCH=rs6000
else
IBM_ARCH=powerpc
fi
if [ -x /usr/bin/oslevel ] ; then
IBM_REV="/usr/bin/oslevel"
else
IBM_REV="${UNAME_VERSION}.${UNAME_RELEASE}"
fi
echo ${IBM_ARCH}-ibm-aix${IBM_REV}
exit
*:AIX:*:*)
echo rs6000-ibm-aix
exit
ibmrt:4.4BSD:*|romp-ibm:BSD:*)
echo romp-ibm-bsd4.4
exit
ibmrt:*BSD:*|romp-ibm:BSD:*) # covers RT/PC BSD and
echo romp-ibm-bsd${UNAME_RELEASE} # 4.3 with uname added to
exit # report: romp-ibm BSD 4.3
*:BOSX:*:*)
echo rs6000-bull-bosx
exit
DPX/2?00:B.O.S.:*:*)
echo m68k-bull-sysv3
exit
9000/[34]??:4.3bsd:1.::* *)
echo m68k-hp-bsd
exit
hp300:4.4BSD:::*| 9000/[34]??:4.3bsd:2.::* *)
echo m68k-hp-bsd4.4
exit
9000/[34678]??:HP-UX:*:*)
HPUX_REV="echo ${UNAME_RELEASE}|sed -e 's/[^.]*.[0B]*//r"
case "$[UNAME_MACHINE]" in
9000/31?) HP_ARCH=m68000 ;; 
9000/[34]? ) HP_ARCH=m68k ;;
9000/[678][0-9][0-9])
if [ -x /usr/bin/getconf ] ; then
sc_cpu_version="/usr/bin/getconf SC_CPU_VERSION 2>/dev/null"
sc_kernel_bits="/usr/bin/getconf SC_KERNEL_BITS 2>/dev/null"
case "${sc_cpu_version}" in
523) HP_ARCH="hppa1.0" ;; # CPU_PA_RISC1_0
528) HP_ARCH="hppa1.1" ;; # CPU_PA_RISC1_1
# CPU_PA_RISC2_0

case "${sc_kernel_bits}" in
  32) HP_ARCH="hppa2.0n" ;;
  64) HP_ARCH="hppa2.0w" ;;
  *) HP_ARCH="hppa2.0" ;;  # HP-UX 10.20
esac ;;
esac

if [ "${HP_ARCH}" = "" ]; then
  eval $set_cc_for_build
  sed 's/\t//' << EOF >$dummy.c

#define _HPUX_SOURCE
#include <stdlib.h>
#include <unistd.h>

int main ()
{

#if defined(_SC_KERNEL_BITS)
  long bits = sysconf(_SC_KERNEL_BITS);
#endif
  long cpu  = sysconf(_SC_CPU_VERSION);

  switch (cpu)
  {
    case CPU_PA_RISC1_0: puts("hppa1.0"); break;
    case CPU_PA_RISC1_1: puts("hppa1.1"); break;
    case CPU_PA_RISC2_0:
#if defined(_SC_KERNEL_BITS)
    switch (bits)
    {
      case 64: puts("hppa2.0w"); break;
      case 32: puts("hppa2.0n"); break;
      default: puts("hppa2.0"); break;
    } break;
#else  /* !defined(_SC_KERNEL_BITS) */
    puts("hppa2.0"); break;
#endif
    default: puts("hppa1.0"); break;
  }
  exit (0);
}
EOF

(CC_OPTS= $CC_FOR_BUILD -o $dummy $dummy.c 2>/dev/null) && HP_ARCH=`$dummy`
test -z "$HP_ARCH" && HP_ARCH="hppa"
fi ;;
esac
if [ "$HP_ARCH" = "hppa2.0w" ]
then
eval $set_cc_for_build

# hppa2.0w-hp-hpux* has a 64-bit kernel and a compiler generating
# 32-bit code.  hppa64-hp-hpux* has the same kernel and a compiler
# generating 64-bit code.  GNU and HP use different nomenclature:
#
#$ CC_FOR_BUILD=cc ./config.guess
#$ => hppa2.0w-hp-hpux11.23
#$ CC_FOR_BUILD="cc +DA2.0w" ./config.guess
#$ => hppa64-hp-hpux11.23

if echo __LP64__ | (CCOPTS= $CC_FOR_BUILD -E - 2>/dev/null) |
grep -q __LP64__
then
HP_ARCH="hppa2.0w"
else
HP_ARCH="hppa64"
fi
fi
echo ${HP_ARCH}-hp-hpux${HPUX_REV}
exit ;;

ia64:HP-UX:*:*)
HPUX_REV=`echo ${UNAME_RELEASE}|sed -e 's/[^.]*.[0B]//g'`
echo ia64-hp-hpux${HPUX_REV}
exit ;;

3050*:HI-UX:*:*)
eval $set_cc_for_build
sed 's/^	//' << EOF >$dummy.c
#include <unistd.h>
int
main ()
{
long cpu = sysconf (_SC_CPU_VERSION);
/* The order matters, because CPU_IS_HP_MC68K erroneously returns
true for CPU_PA_RISC1_0.  CPU_IS_PA_RISC returns correct
results, however.  */
if (CPU_IS_PA_RISC (cpu))
{
switch (cpu)
{
case CPU_PA_RISC1_0: puts ("hppa1.0-hitachi-hiuxwe2"); break;
case CPU_PA_RISC1_1: puts ("hppa1.1-hitachi-hiuxwe2"); break;
case CPU_PA_RISC2_0: puts ("hppa2.0-hitachi-hiuxwe2"); break;
default: puts ("hppa-hitachi-hiuxwe2"); break;
}
}
else if (CPU_IS_HP_MC68K (cpu))
puts("m68k-hitachi-hiuxwe2");
else puts("unknown-hitachi-hiuxwe2");
exit(0);
}
EOF
$CC_FOR_BUILD -o $dummy $dummy.c && SYSTEM_NAME=`$dummy` &&
{ echo "$SYSTEM_NAME"; exit; }
echo unknown-hitachi-hiuxwe2
exit ::
  9000/7?:4.3bsd::* | 9000/8?[79]:4.3bsd::*
} echo hppa1.1-hp-bsd
exit ::
  9000/8?:4.3bsd::*
} echo hppa1.0-hp-bsd
exit ::
  *9??*:MPE/iX::* | *3000*:MPE/iX:*
} echo hppa1.0-hp-mpeix
exit ::
  hp7??:OSF1::* | hp8?[79]:OSF1:*
} echo hppa1.1-hp-osf
exit ::
  hp8??:OSF1:*
} echo hppa1.0-hp-osf
exit ::
  i*86:OSF1:*:*
if [ -x /usr/sbin/sysversion ] ; then
echo ${UNAME_MACHINE}-unknown-osf1mk
else
echo ${UNAME_MACHINE}-unknown-osf1
fi
exit ::
  parisc*:Lites*:*
} echo hppa1.1-hp-lites
exit ::
  C1*:ConvexOS: | convex:ConvexOS:C1:*
} echo c1-convex-bsd
exit ::
  C2*:ConvexOS: | convex:ConvexOS:C2:*
if getsysinfo -f scalar_acc
then echo c32-convex-bsd
else echo c2-convex-bsd
fi
exit ::
  C34*:ConvexOS: | convex:ConvexOS:C34:*
} echo c34-convex-bsd
exit ::
  C38*:ConvexOS: | convex:ConvexOS:C38:*
} echo c38-convex-bsd
UNAME_PROCESSOR=`/usr/bin/uname -p`
case ${UNAME_PROCESSOR} in
  amd64)
    echo x86_64-unknown-freebsd`echo ${UNAME_RELEASE}|sed -e 's/[-(].*//';
  *)
    echo ${UNAME_PROCESSOR}-unknown-freebsd`echo ${UNAME_RELEASE}|sed -e 's/[-(].*//';
esac
  exit ;;
  i*:CYGWIN*:*)
    echo ${UNAME_MACHINE}-pc-cygwin
    exit ;;
  *)
    echo ${UNAME_MACHINE}-pc-mingw64
    exit ;;
  i*:
    echo ${UNAME_MACHINE}-pc-mingw32
    exit ;;
  i*:
    echo ${UNAME_MACHINE}-pc-msys
    exit ;;
  i*:windows32*:*)
    echo ${UNAME_MACHINE}-pc-pw32
    exit ;;
  i*:Interix*:*)
    case ${UNAME_MACHINE} in
      x86)
        echo i586-pc-interix${UNAME_RELEASE}
        exit ;;
        authenticamd | genuineintel | EM64T)
        echo x86_64-unknown-interix${UNAME_RELEASE}
        exit ;;
        IA64)
        echo ia64-unknown-interix${UNAME_RELEASE}
        exit ;;
        esac
      *)
    esac
  8664:Windows_NT:*)
    echo x86_64-pc-mks
    exit ;
  8664:Windows_NT:*)
    echo x86_64-pc-mks
    exit ;;
  i*:Windows_NT*:*)
    echo i${UNAME_MACHINE}-pc-mks
    exit ;
 *)
# How do we know it's Interix rather than the generic POSIX subsystem?
It also conflicts with pre-2.0 versions of AT&T UWIN. Should we
UNAME_MACHINE based on the output of uname instead of i386?

echo i586-pc-interix
exit ;;
i*:UWIN*:*):
echo $(UNAME_MACHINE)-pc-uwin
exit ;;
amd64:CYGWIN*:.*| x86_64:CYGWIN*:.*:
echo x86_64-unknown-cygwin
exit ;;
p*:CYGWIN*:.*:
echo powerpc-unknown-cygwin
exit ;;
prep*:SunOS:5.**:.*:
echo powerpc-unknown-solaris2`echo $(UNAME_RELEASE)|sed -e 's/[^.]*$//''
exit ;;
*:GNU*:.*):
# the GNU system
echo `echo $(UNAME_MACHINE)|sed -e 's,.*/.*/s,,'`-unknown-gnu`echo $(UNAME_RELEASE)|sed -e 's,/.*$,,'``
exit ;;
*:GNU*:.*):
# other systems with GNU libc and userland
echo $(UNAME_MACHINE)-unknown-`echo $(UNAME_SYSTEM) | sed 's,^[^/]*,,' | tr [A-Z] [a-z]`"echo
$(UNAME_RELEASE)|sed -e 's,.-,,-gnu``
exit ;;
i*86:Minix:*,:.*:
echo $(UNAME_MACHINE)-pc-minix
exit ;;
aarch64:Linux*:.*):
echo $(UNAME_MACHINE)-unknown-linux-gnu
exit ;;
aarch64_be:Linux*:.*):
UNAME_MACHINE=aarch64_be
echo $(UNAME_MACHINE)-unknown-linux-gnu
exit ;;
alpha:Linux*:.*):
case `sed -n '/^cpu model/s/.*/\1/p' < /proc/cpuinfo` in
EV5) UNAME_MACHINE=alphaev5 ;;
EV56) UNAME_MACHINE=alphaev56 ;;
PCA56) UNAME_MACHINE=alphapca56 ;;
PCA57) UNAME_MACHINE=alphapca56 ;;
EV6) UNAME_MACHINE=alphaev6 ;;
EV67) UNAME_MACHINE=alphaev67 ;;
EV68*) UNAME_MACHINE=alphaev68 ;;
esac
objdump --private-headers /bin/sh | grep -q ld.so.1
if test "$?" = 0 ; then LIBC="gnulibc1" ; else LIBC="" ; fi
echo $(UNAME_MACHINE)-unknown-linux-$LIBC
exit ;;
  arm*:Linux:*:*)
eval $set_cc_for_build
if echo __ARM_EABI__ | $CC_FOR_BUILD -E - 2>/dev/null |
  | grep -q __ARM_EABI__
then
  echo ${UNAME_MACHINE}-unknown-linux-$LIBC
else
  if echo __ARM_PCS_VFP | $CC_FOR_BUILD -E - 2>/dev/null |
     | grep -q __ARM_PCS_VFP
  then
    echo ${UNAME_MACHINE}-unknown-linux-gnueabi
  else
    echo ${UNAME_MACHINE}-unknown-linux-gnueabihf
  fi
fi
exit ;;
  avr32*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-$LIBC
exit ;;
  cris:Linux:*:*)
echo ${UNAME_MACHINE}-axis-linux-$LIBC
exit ;;
  crisv32:Linux:*:*)
echo ${UNAME_MACHINE}-axis-linux-$LIBC
exit ;;
  frv:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-$LIBC
exit ;;
  hexagon:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-$LIBC
exit ;;
  i*86:Linux:*:*)
LIBC=gnu
eval $set_cc_for_build
sed 's/^// << EOF >$dummy.c
#elif __dietlibc__
LIBC=dietlibc
#endif
EOF
eval `$CC_FOR_BUILD -E $dummy.c 2>/dev/null | grep "^LIBC"
echo "$LIBC"'}
exit ;;
  ia64:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-$LIBC
exit ;;
  m32r*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-$LIBC
m68:*:Linux:*:* | mips64:*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
eval $set_cc_for_build
sed 's/^[ ]*///' << EOF >$dummy.c
#undef CPU
#undef ${UNAME_MACHINE}
#undef ${UNAME_MACHINE}el
#if defined(__MIPSEL__) || defined(__MIPSEL) || defined(_MIPSEL) || defined(MIPSEL)
CPU=${UNAME_MACHINE}el
#else
#if defined(__MIPSEB__) || defined(__MIPSEB) || defined(_MIPSEB) || defined(MIPSEB)
CPU=${UNAME_MACHINE}
#else
CPU=
#endif
#endif
eval `$CC_FOR_BUILD -E $dummy.c 2>/dev/null | grep '^CPU'
EOF
echo $[CPU-unknown-linux-][LIBC]" !~ x & & { echo "$[CPU-unknown-linux-][LIBC]"; exit; }

case `grep '^cpu[^a-z]*:' /proc/cpuinfo 2>/dev/null | cut -d' ' -f2` in
PA7*) echo hppa1.1-unknown-linux-][LIBC] ;;
PA8*) echo hppa2.0-unknown-linux-][LIBC] ;;
*) echo hppa-unknown-linux-][LIBC] ;;
esac
echo sparc-unknown-linux-][LIBC]" !~ x & & { echo "$[CPU-unknown-linux-][LIBC]"; exit; }
echo parisc-unknown-linux-][LIBC]" !~ x & & { echo "$[CPU-unknown-linux-][LIBC]"; exit; }
echo hppa64-unknown-linux-][LIBC]" !~ x & & { echo "$[CPU-unknown-linux-][LIBC]"; exit; }
echo hppa-unknown-linux-][LIBC]" !~ x & & { echo "$[CPU-unknown-linux-][LIBC]"; exit; }
echo ppc64-unknown-linux-][LIBC]" !~ x & & { echo "$[CPU-unknown-linux-][LIBC]"; exit; }
echo hppa-unknown-linux-][LIBC]" !~ x & & { echo "$[CPU-unknown-linux-][LIBC]"; exit; }
echo powerpc64-unknown-linux-][LIBC]" !~ x & & { echo "$[CPU-unknown-linux-][LIBC]"; exit; }
echo powerpc-unknown-linux-][LIBC]" !~ x & & { echo "$[CPU-unknown-linux-][LIBC]"; exit; }
echo s390x-unknown-linux-][LIBC]" !~ x & & { echo "$[CPU-unknown-linux-][LIBC]"; exit; }
echo hppa-unknown-linux-][LIBC]" !~ x & & { echo "$[CPU-unknown-linux-][LIBC]"; exit; }
echo parisc-unknown-linux-][LIBC]" !~ x & & { echo "$[CPU-unknown-linux-][LIBC]"; exit; }
echo powerpc64-unknown-linux-][LIBC]" !~ x & & { echo "$[CPU-unknown-linux-][LIBC]"; exit; }
echo powerpc-unknown-linux-][LIBC]" !~ x & & { echo "$[CPU-unknown-linux-][LIBC]"; exit; }
echo s390x-unknown-linux-][LIBC]" !~ x & & { echo "$[CPU-unknown-linux-][LIBC]"; exit; }
exit ;;
  sh64*:Linux:*:*)
  echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
  exit ;;
sh*:Linux:*:*)
  echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
  exit ;;
  sparc:Linux:*:* | sparc64:Linux:*:*)
  echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
  exit ;;
tile*:Linux:*:*)
  echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
  exit ;;
vax:Linux:*:*)
  echo ${UNAME_MACHINE}-dec-linux-${LIBC}
  exit ;;
x86_64:Linux:*:*)
  echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
  exit ;;
xtensa*:Linux:*:*)
  echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
  exit ;;
i*86:DYNIX/ptx:4*:*)
  # ptx 4.0 does uname -s correctly, with DYNIX/ptx in there.
  # earlier versions are messed up and put the nodename in both
  # sysname and nodename.
  echo i386-sequent-sysv4
  exit ;;
i*86:UNIX_SV:4.2MP:2.*)
  # Unixware is an offshoot of SVR4, but it has its own version
  # number series starting with 2...
  # I am not positive that other SVR4 systems won't match this,
  # I just have to hope. -- rms.
  # Use sysv4.2uw... so that sysv4* matches it.
  echo ${UNAME_MACHINE}-pc-sysv4.2uw${UNAME_VERSION}
  exit ;;
i*86:OS/2:.*:*)
  # If we were able to find `uname', then EMX Unix compatibility
  # is probably installed.
  echo ${UNAME_MACHINE}-pc-os2-emx
  exit ;;
i*86:XTS-300:*:STOP)
  echo ${UNAME_MACHINE}-unknown-stop
  exit ;;
i*86:atheos:*:*)
  echo ${UNAME_MACHINE}-unknown-atheos
  exit ;;
i*86:syllable:*:*)

---

Open Source Used In StarOS 21.19271
echo ${UNAME_MACHINE}-pc-syllable
exit ::
i*86:LynxOS:2.*:* | i*86:LynxOS:3.[01]*:* | i*86:LynxOS:4.[02]*:*)
echo i386-unknown-lynxos${UNAME_RELEASE}
exit ::
i*86:*DOS:*:*)
echo ${UNAME_MACHINE}-pc-msdosdjgpp
exit ::
i*86:*:4.*:* | i*86:SYSTEM_V:4.*:*)
UNAME_REL=`echo ${UNAME_RELEASE} | sed 's/\mps//'
if grep Novell /usr/include/link.h >/dev/null 2>/dev/null; then
echo ${UNAME_MACHINE}-univel-sysv${UNAME_REL}
else
echo ${UNAME_MACHINE}-pc-sysv${UNAME_REL}
fi
exit ::
i*86:*:5:[678]*)
# UnixWare 7.x, OpenUNIX and OpenServer 6.
case `/bin/uname -X | grep ^Machine` in
  *486*)
     UNAME_MACHINE=i486 ;;
  *Pentium*)
     UNAME_MACHINE=i586 ;;
  *Pent*[*Celeron) UNAME_MACHINE=i686 ;;
esac
echo ${UNAME_MACHINE}-unknown-
sysv${UNAME_RELEASE}$UNAME_SYSTEM$UNAME_VERSION
exit ::
i*86:*:3.2:*)
if test -f /usr/options/cb.name; then
  UNAME_REL=`sed -n 's/.*Version //p' </usr/options/cb.name`
echo ${UNAME_MACHINE}-pc-isc$UNAME_REL
elif /bin/uname -X 2>/dev/null >/dev/null ; then
  UNAME_REL=`(/bin/uname -X|grep Release|sed -e 's/.*= //')` (/bin/uname -X|grep i80486 >/dev/null) &&
  UNAME_MACHINE=i486 (/bin/uname -X|grep ^Machine.*Pentium' >/dev/null) \
  && UNAME_MACHINE=i586 (/bin/uname -X|grep ^Machine.*Pent II' >/dev/null) \n  && UNAME_MACHINE=i686 (/bin/uname -X|grep ^Machine.*Pentium Pro' >/dev/null) \n  && UNAME_MACHINE=i686
echo ${UNAME_MACHINE}-pc-sco$UNAME_REL
else
echo ${UNAME_MACHINE}-pc-sysv32
fi
exit ::
  pc:*:*:*:
# Left here for compatibility:
# uname -m prints for DJGPP always 'pc', but it prints nothing about
# the processor, so we play safe by assuming i586.
Note: whatever this is, it MUST be the same as what config.sub prints for the "djgpp" host, or else GDB configury will decide that this is a cross-build.

```bash
echo i586-pc-msdosdjgpp
exit ::
  Intel:Mach:3*:*)
echo i386-pc-mach3
exit ::
  paragon:*:*:*)
echo i860-intel-osf1
exit ::
i860:*:4.*:*) # i860-SVR4
if grep Stardent /usr/include/sys/uadmin.h >/dev/null 2>&1 ; then
echo i860-stardent-sysv${UNAME_RELEASE} # Stardent Vistra i860-SVR4
else # Add other i860-SVR4 vendors below as they are discovered.
echo i860-unknown-sysv${UNAME_RELEASE} # Unknown i860-SVR4
fi
exit ::
  mini*:CTIX:SYS*5:*)
  "miniframe"
echo m68010-convergent-sysv
exit ::
  mc66k:UNIX:SYSTEM5:3.51m)
echo m68k-convergent-sysv
exit ::
  M68070:D-NIX:5.3:*)
echo m68k-diab-dnix
exit ::
  M68*:.*:R3V[5678]*:*)
test -r /sysV68 && { echo 'm68k-motorola-sysv'; exit; } ::
  3[345][3]:4.0:3.0 | 3[34][3]:4.0:3.0 | 3[34][3]:4.0:3.0 | 3[34][3]:4.0:3.0 | 4400:*:4.0:3.0 | 4850:*:4.0:3.0 |
  SKA40:*:4.0:3.0 | SDS2:*:4.0:3.0 | SHG2:*:4.0:3.0 | S7501:*:4.0:3.0)
OS_REL=''
/test -r /etc/.relid |
  & OS_REL=.`sed -n 's/[^ ]* \([^ ]* \([^0-9-][0-9-]\)].*/\1/p' < /etc/.relid'
/bin/uname -p 2>/dev/null | grep 86 > /dev/null 
  & { echo i486-ncr-sysv4.3S[OS_REL]; exit; } ::
/bin/uname -p 2>/dev/null | /bin/grep entium >/dev/null 
  & { echo i586-ncr-sysv4.3S[OS_REL]; exit; } ::
    3[34]:4.0:* | 3[34]:4.0:* | 3[34]:4.0:* | 3[34]:4.0:* |
/bin/uname -p 2>/dev/null | grep 86 > /dev/null 
  & { echo i486-ncr-sysv4; exit; } ::
    NCR*:4.2:* | MPRAS*:4.2:*)
OS_REL='.'3'
test -r /etc/.relid |
  & OS_REL=`sed -n 's/[^ ]* \([^ ]* \([^0-9-][0-9-]\)].*/\1/p' < /etc/.relid'
/bin/uname -p 2>/dev/null | grep 86 > /dev/null 
  & { echo i486-ncr-sysv4.3S[OS_REL]; exit; } ::
```

Open Source Used In StarOS 21.19273
exit ;;
i*86:VOS:*:*)
# From Paul.Green@stratus.com.
echo ${UNAME_MACHINE}-stratus-vos
exit ;;
*:VOS:*:*)
# From Paul.Green@stratus.com.
echo hppa1.1-stratus-vos
exit ;;
mc68*:A/UX:*:*)
echo m68k-apple-aux${UNAME_RELEASE}
exit ;;
news*:NEWS-OS:6*:*)
echo mips-sony-newsos6
exit ;;
R[34]000:*System_V*:*:* | R4000:UNIX_SYSV*:*:* | R*000:UNIX_SV*:*:*)
if [ -d /usr/nec ]; then
  echo mips-nec-sysv${UNAME_RELEASE}
else
  echo mips-unknown-sysv${UNAME_RELEASE}
fi
exit ;;
BeBox:BeOS:*:*) # BeOS running on hardware made by Be, PPC only.
echo powerpc-be-beos
exit ;;
BeMac:BeOS:*:*) # BeOS running on Mac or Mac clone, PPC only.
echo powerpc-apple-beos
exit ;;
BePC:BeOS:*:*) # BeOS running on Intel PC compatible.
echo i586-pc-beos
exit ;;
BePC:Haiku:*:*) # Haiku running on Intel PC compatible.
echo i586-pc-haiku
exit ;;
x86_64:Haiku:*:*)
echo x86_64-unknown-haiku
exit ;;
SX-4:SUPER-UX:*:*)
echo sx4-nec-superux${UNAME_RELEASE}
exit ;;
SX-5:SUPER-UX:*:*)
echo sx5-nec-superux${UNAME_RELEASE}
exit ;;
SX-6:SUPER-UX:*:*)
echo sx6-nec-superux${UNAME_RELEASE}
exit ;;
SX-7:SUPER-UX:*:*)
echo sx7-nec-superux${UNAME_RELEASE}
exit ;;

    SX-8: SUPER-UX:*:*)
    echo sx8-nec-superux${UNAME_RELEASE}
    exit ;;
    SX-8R: SUPER-UX:*:*)
    echo sx8r-nec-superux${UNAME_RELEASE}
    exit ;;
    Power*:Rhapsody:*:*)
    echo powerpc-apple-rhapsody${UNAME_RELEASE}
    exit ;;
    *:Rhapsody:*:*)
    echo ${UNAME_MACHINE}-apple-rhapsody${UNAME_RELEASE}
    exit ;;
    *:Darwin:*:*)
    UNAME_PROCESSOR=`uname -p` || UNAME_PROCESSOR=unknown
    case $UNAME_PROCESSOR in
        i386)
            eval $set_cc_for_build
            if [ "$CC_FOR_BUILD" != 'no_compiler_found' ]; then
                if (echo '#ifdef __LP64__'; echo IS_64BIT_ARCH; echo '#endif') | \
                   (CCOPTS= $CC_FOR_BUILD -E - 2>/dev/null) | \
                   grep IS_64BIT_ARCH >/dev/null
                then
                    UNAME_PROCESSOR="x86_64"
                fi
            fi
            unknown) UNAME_PROCESSOR=powerpc ;;
        esac
    echo ${UNAME_PROCESSOR}-apple-darwin${UNAME_RELEASE}
    exit ;;
    *:procnto*:*:* | *:QNX:[0123456789]*:*)
    UNAME_PROCESSOR=`uname -p`
    if test "$UNAME_PROCESSOR" = "x86"; then
        UNAME_PROCESSOR=i386
        UNAME_MACHINE=pc
    fi
    UNAME_PROCESSOR=${UNAME_PROCESSOR} -${UNAME_MACHINE}-nto-qnx${UNAME_RELEASE}
    exit ;;
    *:QNX:*:4*)
    echo i386-pc-qnx
    exit ;;
    NEO-?: NONSTOP_KERNEL:*:*)
    echo neo-tandem-nsk${UNAME_RELEASE}
    exit ;;
    NSE-*: NONSTOP_KERNEL:*:*)
    echo nse-tandem-nsk$UNAME_RELEASE
    exit ;;
    NSR-?: NONSTOP_KERNEL:*:*)
    echo nse-tandem-nsk$UNAME_RELEASE
    exit ;;
    Open Source Used In StarOS 21.19276
echo nsr-tandem-nsk${UNAME_RELEASE}
exit ::
*:NonStop-UX:*:*)

echo mips-compaq-nonstopux
exit ::
    BS2000:POSIX*:*:*)

echo $[UNAME_MACHINE]-$[UNAME_SYSTEM]-$[UNAME_RELEASE]
exit ::
*:Plan9*:*)

# "uname -m" is not consistent, so use $cputype instead. 386
# is converted to i386 for consistency with other x86
# operating systems.
if test "$cputype" = "386"; then
    UNAME_MACHINE=i386
else
    UNAME_MACHINE="$cputype"
fi

echo $[UNAME_MACHINE]-unknown-plan9
exit ::
*:TOPS-10:*:*)
echo pdp10-unknown-tops10
exit ::
*:TENEX*:*)

echo pdp10-unknown-tenex
exit ::
    KS10:TOPS-20:*:K10:TOPS-20:*:TYPE4:TOPS-20:*:*)

echo pdp10-dec-tops20
exit ::
    XKL-1:TOPS-20:*:TYPE5:TOPS-20:*:*)

echo pdp10-xkl-tops20
exit ::
*:TOPS-20:*:*)

echo pdp10-unknown-tops20
exit ::
*:ITS:*:*)

echo pdp10-unknown-its
exit ::
  SEI:*:*:SEIUX)

echo mips-sei-seiux${UNAME_RELEASE}
exit ::
*:DragonFly:*:*)

echo $[UNAME_MACHINE]-unknown-dragonfly`echo $[UNAME_RELEASE]|sed -e 's/[\[-\]-\].*/'`
exit ::
*:VMS:*:*)

UNAME_MACHINE=`(uname -p) 2>/dev/null`
case "$UNAME_MACHINE" in
  A*) echo alpha-dec-vms ; exit ;;
  I*) echo ia64-dec-vms ; exit ;;
  V*) echo vax-dec-vms ; exit ;;
esac ;;
*:XENIX:*:SysV)
  echo i386-pc-xenix
  exit ::
  i*86:skyos:*:*)
  echo ${UNAME_MACHINE}-pc-skyos`echo ${UNAME_RELEASE}` | sed -e 's/.*$/'/
  exit ::
  i*86:rdos:*:*)
  echo ${UNAME_MACHINE}-pc-rdos
  exit ::
  i*86:AROS:*:*)
  echo ${UNAME_MACHINE}-pc-aros
  exit ::
  x86_64:VMkernel:*:*)
  echo ${UNAME_MACHINE}-unknown-esx
  exit ::
esac

eval $set_cc_for_build
  cat >$dummy.c <<EOF
  #ifdef _SEQUENT_
  # include <sys/types.h>
  # include <sys/utsname.h>
  #endif
  main ()
  {
    #if defined (sony)
    #if defined (MIPSEB)
      /* BFD wants "bsd" instead of "newsos". Perhaps BFD should be changed,
       I don't know.... */
      printf ("mips-sony-bsd\n"); exit (0);
    #else
      #include <sys/param.h>
      printf ("m68k-sony-newsos%s\n", "4"
    #ifdef NEWSOS4
      #endif
    #else
      #endif
    #endif
  ); exit (0);
  #endif
  #endif

  #if defined (__arm) && defined (__acorn) && defined (__unix)
printf ("arm-acorn-riscix\n"); exit (0);
#endif

#if defined (hp300) && !defined (hpux)
printf ("m68k-hp-bsd\n"); exit (0);
#endif

#if defined (NeXT)
#if !defined (__ARCHITECTURE__)
define __ARCHITECTURE__ "m68k"
#endif

int version;
version=`(hostinfo | sed -n 's/.*NeXT Mach \([0-9]*\).*\(1/p\) 2>/dev/null')`
if (version < 4)
  printf ("%s-next-nextstep%d\n", __ARCHITECTURE__, version);
else
  printf ("%s-next-openstep%d\n", __ARCHITECTURE__, version);
exit (0);
#endif

#if defined (MULTIMAX) || defined (n16)
#if defined (UMAXV)
printf ("ns32k-encore-sysv\n"); exit (0);
#else
#if defined (CMU)
printf ("ns32k-encore-mach\n"); exit (0);
#else
printf ("ns32k-encore-bsd\n"); exit (0);
#endif
#endif
#endif

#if defined (__386BSD__)
printf ("i386-pc-bsd\n"); exit (0);
#endif

#if defined (sequent)
#if defined (i386)
printf ("i386-sequent-dynix\n"); exit (0);
#endif
#endif

#if defined (_SEQUENT_)
struct utsname un;

Open Source Used In StarOS 21.19279
uname(&un);

if (strncmp(un.version, "V2", 2) == 0) {
    printf ("i386-sequent-ptx2\n") ; exit (0);
}
if (strncmp(un.version, "V1", 2) == 0) { /* XXX is V1 correct? */
    printf ("i386-sequent-ptx1\n") ; exit (0);
}
printf ("i386-sequent-ptx\n") ; exit (0);
#endif
#if defined (vax)
    # if !defined (ultrix)
    # include <sys/param.h>
    # if defined (BSD)
        # if BSD == 43
            printf ("vax-dec-bsd4.3\n") ; exit (0);
        # else
            # if BSD == 199006
                printf ("vax-dec-bsd4.3reno\n") ; exit (0);
            # else
                printf ("vax-dec-bsd\n") ; exit (0);
            # endif
        # endif
    # endif
    # endif
else
    printf ("vax-dec-ultrix\n") ; exit (0);
#endif
#if defined (alliant) && defined (i860)
    printf ("i860-alliant-bsd\n") ; exit (0);
#endif
exit (1);
}
EOF

$CC_FOR_BUILD -o dummy dummy.c 2>/dev/null && SYSTEM_NAME=`dummy` &&
    { echo "$SYSTEM_NAME"; exit; }

# Apollos put the system type in the environment.

test -d /usr/apollo && { echo "$ISP-apollo-$SYSTYPE"; exit; }
# Convex versions that predate uname can use getsysinfo(1)

if [ -x /usr/convex/getsysinfo ]
then
    case `getsysinfo -f cpu_type` in
        c1*)
            echo c1-convex-bsd
            exit ;;
        c2*)
            if getsysinfo -f scalar_acc
                then echo c32-convex-bsd
                else echo c2-convex-bsd
            fi
            exit ;;
        c34*)
            echo c34-convex-bsd
            exit ;;
        c38*)
            echo c38-convex-bsd
            exit ;;
        c4*)
            echo c4-convex-bsd
            exit ;;
    esac
    fi

    cat >&2 <<EOF
$0: unable to guess system type

This script, last modified $timestamp, has failed to recognize the operating system you are using. It is advised that you download the most up to date version of the config scripts from

http://git.savannah.gnu.org/gitweb/?p=config.git;a= blob_plain; f=config.guess;hb=HEAD
and
http://git.savannah.gnu.org/gitweb/?p=config.git;a=blob_plain;f=config.sub;hb=HEAD

If the version you run ($0) is already up to date, please send the following data and any information you think might be pertinent to <config-patches@gnu.org> in order to provide the needed information to handle your system.

config.guess timestamp = $timestamp

uname -m = `(uname -m) 2>/dev/null || echo unknown`
uname -r = `(uname -r) 2>/dev/null || echo unknown`
uname -s = `(uname -s) 2>/dev/null || echo unknown`
uname -v = `(uname -v) 2>/dev/null || echo unknown`
1.28 polaris-common 0.13.2

1.28.1 Available under license:
Apache License
Version 2.0, January 2004
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1.30 digraph-parser 1.0

1.31 yamlbeans 1.11
1.31.1 Available under license:
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1.33 rng-tools 5
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Changes:
The Debian version of rngd is extensively patched with added functionality and bugs courtesy of Henrique de Moraes Holschuh.
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1.35 toml4j 0.7.1

1.36 asm 5.0.4
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That's all there is to it!
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 : 2dc5fa0f7c7f3f06a7a64a7a67b39626650e863f16a

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

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

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

http://www.hpl.hp.com/research/linux/atomic_ops/
I (Mathieu Desnoyers) wrote the remainder of the code.

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

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1.44 libevent 2.0.5-beta

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1.46 kotlin-stdlib-common 1.3.31

1.47 jackson-databind 2.10.0
1.47.1 Available under license :

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### 1.50 zjsonpatch 0.4.8

1.50.1 Available under license:

```java
package com.flipkart.zjsonpatch;

import com.fasterxml.jackson.databind.JsonNode;
import java.util.EnumSet;

class CopyingApplyProcessor extends InPlaceApplyProcessor {
    CopyingApplyProcessor(JsonNode target) {
        this(target, CompatibilityFlags.defaults());
    }

    CopyingApplyProcessor(JsonNode target, EnumSet<CompatibilityFlags> flags) {
        super(target.deepCopy(), flags);
    }
}
```

### 1.51 apache-httpcomponents-core 4.4.11

1.51.1 Available under license:

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

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

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

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

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executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

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

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

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

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use both them and the Library together in an executable that you
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7. You may place library facilities that are a work based on the
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the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

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

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

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

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

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.

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

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

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

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

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

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

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

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

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

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@end enumerate

@ifex
@end iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@end ifinfo
@page
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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Appendix: How to Apply These Terms to Your New Programs

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

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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/*

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*/
Index: tdbsa/tdb.c

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

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
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** NOTE! The following LGPL license applies to the tdb
** library. This does NOT imply that all of Samba is released
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image:$(BSD_LIB)

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

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \ 
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \ 
@-$(LDCONFIG)
install-strip: install
install-shlibs-strip: install-shlibs
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f../$(BSD_LIB)

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:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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Gadi Oxman, August 1995

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- Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
- Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
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- Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
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- Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
- Steve Clift <clift@ml.csiro.au> OMEGA clock driver
- Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
- Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
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- Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
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David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36

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14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and
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29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to
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30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX
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34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
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38. [41]Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
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47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
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49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock
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59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
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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.)

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for the or51211 and or51132 frontend drivers, and
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}
#endif

/* 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.

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

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

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

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M. Welsh, 6 July 1996

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**1.68 ipmi-tool 1.8.9**

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.
Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

Steve Haworth contributed the support for the Texas Instruction c30
H.J. Lu has contributed many patches and much testing.

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

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

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

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

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

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1.72 xfsprogs 2.8.16-1

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1.79 erlang-otp 20.3.8.19

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

Written by: Philip Hazel
Email local part: ph10
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version 1.2.3, July 18th, 2005

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

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

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[hipe]

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<signature of Ty Coon>, 1 April 1989
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From mikel@ora.com Tue Aug 1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwru/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995
12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
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
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger
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That's great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book. (Too late to actually discuss the thing, at least for this edition).

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Return-Path: speecdt@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 speecdt@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 SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from speecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <speecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~speecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

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:
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May  9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>

---

Open Source Used In StarOS 21.19890
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

-- End of excerpt from Chet Ramey

From friedman@cli.com Thu May 25 12:19:06 1995

>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. :-) 

1.82 zlib 1.2.3

1.82.1 Available under license:

/* zlib.h -- interface of the 'zlib' general purpose compression library
  version 1.2.11, January 15th, 2017

  Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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

  */

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1.83 integration-rest 0.11.1

1.83.1 Available under license:

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1.84 bzip2 1.0.6

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

*/

1.85 polaris-common-api 0.0.9
1.85.1 Available under license :
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*
package com.synopsys.integration.polaris.common.api.auth.model;

import com.synopsys.integration.polaris.common.api.PolarisComponent;

import com.google.gson.TypeAdapter;
import com.google.gson.annotations.JsonAdapter;
import com.google.gson.annotations.SerializedName;
import com.google.gson.stream.JsonReader;
import com.google.gson.stream.JsonWriter;
import java.io.IOException;
import java.time.OffsetDateTime;
import java.util.HashMap;
import java.util.Map;
import java.util.UUID;

// this file should not be edited - if changes are necessary, the generator should be updated, then this file should be re-created

public class License extends PolarisComponent {
    @SerializedName("id")
    private UUID id;

    @SerializedName("name")
    private String name;

    @SerializedName("organization")
    private String organization;

    /**
     * Gets or Sets type
     */
    @JsonAdapter(TypeEnum.Adapter.class)
    public enum TypeEnum {
        PAID("PAID"),
        FREE("FREE"),
        private final String value;
        TypeEnum(final String value) {
            this.value = value;
        }
    }

    private final String value;
    TypeEnum(final String value) {
        this.value = value;
    }

    public enum TypeEnum {
        PAID("PAID"),
        FREE("FREE"),
        private final String value;
        TypeEnum(final String value) {
            this.value = value;
        }

    }
Open Source Used In StarOS 21

```java
this.value = value;
}

public String getValue() {
    return value;
}

@Override
public String toString() {
    return String.valueOf(value);
}

public static TypeEnum fromValue(final String text) {
    for (final TypeEnum b : TypeEnum.values()) {
        if (String.valueOf(b.value).equals(text)) {
            return b;
        }
    }
    return null;
}

public static class Adapter extends TypeAdapter<TypeEnum> {
    @Override
    public void write(final JsonWriter jsonWriter, final TypeEnum enumeration) throws IOException {
        jsonWriter.value(enumeration.getValue());
    }

    @Override
    public TypeEnum read(final JsonReader jsonReader) throws IOException {
        final String value = jsonReader.nextString();
        return TypeEnum.fromValue(String.valueOf(value));
    }
}

@SerializedName("type")
private TypeEnum type;

@SerializedName("revoked")
private Boolean revoked;

@SerializedName("limits")
private final Map<String, PeriodOfUse> limits = new HashMap<>();

@SerializedName("issued-date")
private OffsetDateTime issuedDate;

@SerializedName("issued-to")
```
private String issuedTo;

@SerializedName("claimed-date")
private OffsetDateTime claimedDate;

@SerializedName("issued-by")
private String issuedBy;

@SerializedName("seat-count")
private Integer seatCount;

@SerializedName("revoked-date")
private OffsetDateTime revokedDate;

/**
 * Get id
 * @return id
 */
public UUID getId() {
    return id;
}

/**
 * Get name
 * @return name
 */
public String getName() {
    return name;
}

/**
 * Get organization
 * @return organization
 */
public String getOrganization() {
    return organization;
}

public void setOrganization(final String organization) {
    this.organization = organization;
}

/**
 * Get type
 * @return type
 */
public TypeEnum getType() {
    return type;
public Boolean getRevoked() {
    return revoked;
}

public Map<String, PeriodOfUse> getLimits() {
    return limits;
}

public OffsetDateTime getIssuedDate() {
    return issuedDate;
}

public String getIssuedTo() {
    return issuedTo;
}

public OffsetDateTime getClaimedDate() {
    return claimedDate;
}

public String getIssuedBy() {
    return issuedBy;
}
1.86 bind 9.8.0

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1.87 zlib 1.1.3

1.88 libpcap 0.9.2

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1.106 netkit-tftp 0.17

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1.108 jackson-core 2.10.0

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1.109 jackson-dataformat-yaml 2.9.8

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1.110 system-security-principal-windows

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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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1.116 asm-based-accessors-helper-used-by-json-smart 1.2

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1.117 jackson-annotations 2.9.0

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1.125 curl 7.51.0

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.130 zlib 1.1.4

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.132 uclibc 0.9.30.1

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X-Original-To: mps@bridge.intra
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Received: from mail.bridge.intra ([127.0.0.1])
by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)
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testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
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> Is it allowed to use the code there, or should I accomodate the testsuite
to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --
> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2
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1.136 xfsprogs 2.8.16

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This package was debianized by Nathan Scott nathans@debian.org on
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------------------------------------------------------------------

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1.137 gdb 7.1.9
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#!/usr/bin/env python

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

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

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

Always review the output of this script before committing it!
A useful command to review the output is:

```
filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
```

This removes the bulk of the changes which are most likely to be correct.

```python
import datetime
import os
import os.path
import subprocess
```
def get_update_list():
    """Return the list of files to update.

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

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

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

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

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

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

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

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

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

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

    fd = open(filename)

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

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

    update_list = get_update_list()
    update_files(update_list)

    # Remind the user that some files need to be updated by HAND...

    if 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", "alocal.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",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (  
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb.gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
)
"sim/common/gen-acclf.c",
"sim/mips/m16run.c", "sim/mips/sim-main.c",
"sim/moxie/moxie-gdb.dts",
# Not a single file in sim/ppc/ appears to be copyright FSF :-(.
"sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
"sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
"sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/hw_core.c",
"sim/ppc/gen-support.c", "sim/ppc/decode-models.h", "sim/ppc/cpu.h",
"sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
"sim/ppc/emu_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
"sim/ppc/hw_phb.c", "sim/ppc/hw_emul.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-emul.c", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/ld-decode.h", "sim/ppc/ld-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
"sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
"sim/ppc/emu_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_gleue.c", "sim/ppc/emu_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emu_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/decode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emu_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/decode-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emu_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.c",
"sim/ppc/device_table.c", "sim/ppc/ff.c", "sim/ppc/ff.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emu_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_hlab.c", "sim/ppc/ff.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/decode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emu_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s"
if __name__ == "__main__":
    main()

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[This is the first released version of the library GPL. It is
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That's all there is to it!

/* 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"

#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); }
};
#endif /* i386-bsd-nat.h */

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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_xsave_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 */
};

#ifdef x86-bsd-nat.h

#endif /* x86-bsd-nat.h */
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@example
one line to give the program's name and a brief idea of what it does.

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

static void show_warranty_command (const char *ignore, int from_tty);

void _initialize_copying (void);

void /\* For old-timers, allow \"info copying\", etc. */
void add_info ("copying", show_copying_command,);

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Version 2.1, February 1999

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will operate properly with a modified version of the library, if
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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 "process-stratum-target.h"
#include "value.h"
#include "gdbcore.h"
#include "inferior.h"          /* for get_exec_file */
#include "gdbthread.h"

#include <fcntl.h>
#include <kvm.h>
#ifdef HAVE_NLIST_H
#include <nlist.h>
#else
#include <paths.h>

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/* 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 process_stratum_target
{
public:
    bsd_kvm_target () = default;

    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 *readdbuf,
const gdb_byte *writetbuf,
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 (_("Using the kernel crash dump %s\n"), bsd_kvm_corefile);
    else
        printf_filtered (_("Using 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
    kvm_geterr (core_kd);

if (nl[0].n_value != 0)
{
    /* Found dumppcb.  If it contains a valid context, return
     * immediately. */
    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
    kvm_geterr (core_kd);

if (nl[0].n_value != 0)
{
    struct pcb *paddr;

    /* 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
thread's 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)
    {  /* 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

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", kvm_geterr (core_kd));

target_fetch Registers (get_current_regcache (), -1);

reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);

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, (_("Generic command for manipulating the kernel memory interface.
")), &bsd_kvm_cmdlist, "kvm ", 0, &cmdlist);

#ifdef 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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c End:

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/* Native-dependent code for modern i386 BSD's.

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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); }
};

#ifndef /* i386-bsd-nat.h */

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