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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
*/

```

## 1.7 netkit-tftp 0.17

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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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## 1.9 pciutils 3.1.8

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```
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## 1.10 zlib 1.2.7

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## 1.11 glibc 2.17

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## 1.13 ftpd-bsd 0.3.2

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```
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```

```
PROG= ls
```

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

```
.include <bsd.prog.mk>
```

```
# $OpenBSD: Makefile,v 1.16 2000/03/01 17:27:28 deraadt Exp $
```

```
# $NetBSD: Makefile,v 1.13 1996/02/16 02:07:41 cgd Exp $
```

```
# @(#)Makefile 8.2 (Berkeley) 4/4/94
```

```
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+= -lwrap
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
session 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

David A. Madore <david.madore@ens.fr>

```

(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 repackage, 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.yip.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.

--

David A. Madore

(david.madore@ens.fr,  
<http://www.eleves.ens.fr:8080/home/madore/>)

## 1.14 libnet 1.1.2.1

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\$Id: COPYING,v 1.1.1.1 2003/06/26 21:55:10 route Exp \$

libnet 1.1.x

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EOF

## 1.15 open-ldap 2.4.33

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# 1.17 gmp 6.0.0

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```
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```

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Gnomovision version 69, Copyright (C) 19yy name of author  
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```

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```
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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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## 1.19 glib 2.46.2

### 1.19.1 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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-----  
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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

/* 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
# ifdef __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

#ifdef __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 */
```

```
#ifdef __cplusplus
extern "C" {
#endif
```

```
/* 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_NEWLINE_ANYCRLF 0x00500000 /* Compile, exec, DFA exec */
#define PCRE_BSR_ANYCRLF    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_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_RECURSELOOP (-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_HASCORLRF 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 structure so that new fields can be added on the end in future versions, without changing the API of the function, thereby allowing old clients to work without modification. \*/

```

typedef struct pcre_callout_block {
int    version;          /* Identifies version of block */
/* ----- Version 0 ----- */
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 */
/* ----- Added for Version 1 ----- */
int    pattern_position; /* Offset to next item in the pattern */
int    next_item_length; /* Length of next item in the pattern */
/* ----- Added for Version 2 ----- */
const unsigned char *mark; /* Pointer to current mark or NULL */
/* ----- */
} pcre_callout_block;

```

/\* Same structure as above, but with 16 bit char pointers. \*/

```

typedef struct pcre16_callout_block {
int    version;          /* Identifies version of block */
/* ----- Version 0 ----- */
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 */
/* ----- Added for Version 1 ----- */

```

```

int    pattern_position; /* Offset to next item in the pattern */
int    next_item_length; /* Length of next item in the pattern */
/* ----- Added for Version 2 ----- */
const PCRE_UCHAR16 *mark; /* Pointer to current mark or NULL */
/* ----- */
} 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. \*/

```

#ifdef 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 *);

```

```

#else /* 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_EXP_DECL int pcre16_config(int, void *);
PCRE_EXP_DECL 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 *, int);
PCRE_EXP_DECL int pcre16_dfa_exec(const pcre16 *, const pcre16_extra *,
    PCRE_SPTR16, int, int, int, int *, int *, int *, int);
PCRE_EXP_DECL int pcre_exec(const pcre *, const pcre_extra *, PCRE_SPTR,
    int, int, int, int *, int);
PCRE_EXP_DECL int pcre16_exec(const pcre16 *, const pcre16_extra *,
    PCRE_SPTR16, int, 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_EXP_DECL int pcre_get_named_substring(const pcre *, const char *,
    int *, int, const char *, const char **);
PCRE_EXP_DECL int pcre16_get_named_substring(const pcre16 *, PCRE_SPTR16,
    int *, int, PCRE_SPTR16, PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_stringnumber(const pcre *, const char *);
PCRE_EXP_DECL int pcre16_get_stringnumber(const pcre16 *, PCRE_SPTR16);
PCRE_EXP_DECL int pcre_get_stringtable_entries(const pcre *, const char *,
    char **, char **);
PCRE_EXP_DECL int pcre16_get_stringtable_entries(const pcre16 *, PCRE_SPTR16,
    PCRE_UCHAR16 **, PCRE_UCHAR16 **);
PCRE_EXP_DECL int pcre_get_substring(const char *, int *, int, int,
    const char **);
PCRE_EXP_DECL int pcre16_get_substring(PCRE_SPTR16, int *, int, int,
    PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_substring_list(const char *, int *, int,
    const char ***);

```

```

PCRE_EXP_DECL int pcre16_get_substring_list(PCRE_SPTR16, int *, int,
      PCRE_SPTR16 **);
PCRE_EXP_DECL const unsigned char *pcre_maketables(void);
PCRE_EXP_DECL const unsigned char *pcre16_maketables(void);
PCRE_EXP_DECL int pcre_refcount(pcre *, int);
PCRE_EXP_DECL int pcre16_refcount(pcre16 *, int);
PCRE_EXP_DECL pcre_extra *pcre_study(const pcre *, int, const char **);
PCRE_EXP_DECL pcre16_extra *pcre16_study(const pcre16 *, int, const char **);
PCRE_EXP_DECL void pcre_free_study(pcre_extra *);
PCRE_EXP_DECL void pcre16_free_study(pcre16_extra *);
PCRE_EXP_DECL const char *pcre_version(void);
PCRE_EXP_DECL const char *pcre16_version(void);

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

/* JIT compiler related functions. */

PCRE_EXP_DECL pcre_jit_stack *pcre_jit_stack_alloc(int, int);
PCRE_EXP_DECL pcre16_jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXP_DECL void pcre_jit_stack_free(pcre_jit_stack *);
PCRE_EXP_DECL void pcre16_jit_stack_free(pcre16_jit_stack *);
PCRE_EXP_DECL void pcre_assign_jit_stack(pcre_extra *,
      pcre_jit_callback, void *);
PCRE_EXP_DECL 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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\*/

#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 */

#include <glib/glib-autocleanups.h>

#undef __GLIB_H_INSIDE__

#endif /* __G_LIB_H__ */

```

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End

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Version 2, June 1991

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## 1.20 zlib 1.2.8

### 1.20.1 Available under license :

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

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#### THE BASIC LIBRARY FUNCTIONS

-----

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

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

## THE BASIC LIBRARY FUNCTIONS

-----

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

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 */
```

-----  
[zlib]

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   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](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

\*/

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[dialyzer]

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[hipe]

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[edoc, syntax\_tools]

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

```
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```
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```

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Ty Coon, President of Vice

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

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!  
/\*

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\*/

Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
  
- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell            2005

+ Copyright (C) Andrew Tridgell 1999-2005  
+ Copyright (C) Jeremy Allison 2000-2006  
+ Copyright (C) Paul 'Rusty' Russell 2000

```
** 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) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB)`)

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

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::

```
$(RM) -rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

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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```
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 *  
 * @(#)queue.h 8.5 (Berkeley) 8/20/94
```

\*/

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\* <http://www.ncsa.uiuc.edu>

\*

\*

\* tcp\_window\_size.c

\* by Mark Gates <mgates@nlanr.net>

\*

\* set/getsockopt

\* ----- \*/

=====

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---

\*  
\* stdio.c  
\* by Mark Gates <mgates@nlanr.net>  
\* and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>  
\* -----  
\* input and output numbers, converting with kilo, mega, giga  
\* ----- \*/

=====

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## 1.28 libcap 1.10

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## 1.29 procps 3.2.6

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```
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@c ispell-local-pdict: "ispell-dict"
@c End:
```

```
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(This file is under construction.) -\*- text -\*-

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+++++

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

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

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



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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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Version 3, 29 June 2007

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@c man begin SEEALSO

gfdl(7), fsf-funding(7).

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@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

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

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

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

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@end smallexample

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

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

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

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

You should also get your employer (if you work as a programmer) or school, if any, to sign a ``copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see

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@c man end

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Version 2, June 1991

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

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

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free

libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

libraries. However, the Lesser license provides advantages in certain special circumstances.

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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@appendixsubsec How to Apply These Terms to Your New Libraries



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```
@end smallexample
```

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```

```
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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```

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## 1.32.1 Available under license :

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Version 2.1, February 1999

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## 1.33 dmidecode 3.5

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## 1.34 ncurses 5.9

## 1.34.1 Available under license :

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

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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Files: install-sh

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## 1.35 xfsprogs 2.8.16-1

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Version 2.1, February 1999

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## 1.36 dosfs-tools 2.11

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```
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```

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```
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```

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

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## 1.39 setserial 2.17

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```

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

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```
#!/bin/sh
# Attempt to guess a canonical system name.
# Copyright (C) 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999,
# 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010,
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timestamp='2012-08-14'

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```

```

#
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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="\
GNU config.guess ($timestamp)

Originally written by Per Bothner.
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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 \${exitcode}" 0 ;
trap "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$$-$RANDOM && (umask 077 && mkdir $tmp) ; } ||
{ tmp=$TMPDIR/cg-$$ && (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"$CC_FOR_BUILD" = x ; then
    CC_FOR_BUILD=no_compiler_found ;
fi
;;
,*) CC_FOR_BUILD=$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` || UNAME_RELEASE=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*, *-*-netbsdout*,
# *-*-netbsdcoeff* 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*|sparc|vax)
    eval $set_cc_for_build
    if echo __ELF__ | $CC_FOR_BUILD -E - 2>/dev/null \
      | grep -q __ELF__
    then
      # Once all utilities can be ECOFF (netbsdcoff) or a.out (netbsdout).
      # Return netbsd for either. FIX?
      os=netbsd
    else
      os=netbsdelf
    fi
  ;;
  *)
    os=netbsd
  ;;
esac
# The OS release
# Debian GNU/NetBSD machines have a different userland, and
# thus, need a distinct triplet. However, they do not need
# kernel version information, so it can be replaced with a
# suitable tag, in the style of linux-gnu.
case "${UNAME_VERSION}" in
  Debian*)
    release='-gnu'
  ;;
  *)
    release=`echo ${UNAME_RELEASE}|sed -e 's/[-_].*\.\/\.`
  ;;
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}"
exit ;;
*:Bitrig:*)
UNAME_MACHINE_ARCH=`arch | sed 's/Bitrig//'^
echo ${UNAME_MACHINE_ARCH}-unknown-bitrig${UNAME_RELEASE}
exit ;;
*:OpenBSD:*)
UNAME_MACHINE_ARCH=`arch | sed 's/OpenBSD//'^
echo ${UNAME_MACHINE_ARCH}-unknown-openbsd${UNAME_RELEASE}
exit ;;
*:ekkoBSD:*)
echo ${UNAME_MACHINE}-unknown-ekkobsd${UNAME_RELEASE}
exit ;;
*:SolidBSD:*)
echo ${UNAME_MACHINE}-unknown-solidbsd${UNAME_RELEASE}
exit ;;
macppc:MirBSD:*)
echo powerpc-unknown-mirbsd${UNAME_RELEASE}
exit ;;
*:MirBSD:*)
echo ${UNAME_MACHINE}-unknown-mirbsd${UNAME_RELEASE}
exit ;;
alpha:OSF1:*)
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="alphaev56" ;;
"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 ${UNAME_RELEASE} | sed -e 's/^[PVTX]//' | tr
'ABCDEFGHIJKLMNOPQRSTUVWXYZ' 'abcdefghijklmnopqrstuvwxyza'
# Reset EXIT trap before exiting to avoid spurious non-zero exit code.
exitcode=$?
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
exit ;;
21064:Windows_NT:50:3)
echo alpha-dec-winnt3.5
exit ;;
Amiga*:UNIX_System_V:4.0:* )
echo m68k-unknown-sysv4
exit ;;
*:[Aa]miga[Oo][Ss]:*:* )
echo ${UNAME_MACHINE}-unknown-amigaos

```

```

exit ;;
*:[Mm]orph[Oo][Ss]:*:*)
echo ${UNAME_MACHINE}-unknown-morphos
exit ;;
*:OS/390:*:*)
echo i370-ibm-openedition
exit ;;
*:z/VM:*:*)
echo s390-ibm-zvmoe
exit ;;
*:OS400:*:*)
echo powerpc-ibm-os400
exit ;;
arm:RISC*:1.[012]*:*|arm:riscix:1.[012]*:*)
echo arm-acorn-riscix${UNAME_RELEASE}
exit ;;
arm:riscos:*:*)arm:RISCOS:*:*)
echo arm-unknown-riscos
exit ;;
SR2?01:HI-UX/MPP:*:*) | SR8000:HI-UX/MPP:*:*)
echo hppa1.1-hitachi-hiuxmpp
exit ;;
Pyramid*:OSx*:*:*) | MIS*:OSx*:*:*) | MIS*:SMP_DC-OSx*:*:*)
# akee@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`
        ;;
esac
# Japanese Language versions have a version number like `4.1.3-JL'.
echo sparc-sun-sunos`echo ${UNAME_RELEASE}|sed -e 's/-/_/'^
exit ;;
sun3*:SunOS:.*:*)
echo m68k-sun-sunos${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}
        ;;

```

```

esac
exit ;;
  aushp:SunOS:*)
echo sparc-auspex-sunos${UNAME_RELEASE}
exit ;;
  # The situation for MiNT is a little confusing. The machine name
  # can be virtually everything (everything which is not
  # "atarist" or "atariste" at least should have a processor
  # > m68000). The system name ranges from "MiNT" over "FreeMiNT"
  # to the lowercase version "mint" (or "freemint"). Finally
  # the system name "TOS" denotes a system which is actually not
  # MiNT. But MiNT is downward compatible to TOS, so this should
  # be no problem.
  atarist[e]:*MiNT:* | atarist[e]:*mint:* | atarist[e]:*TOS:*)
echo m68k-atari-mint${UNAME_RELEASE}
exit ;;
  atari:*MiNT:* | atari:*mint:* | atarist[e]:*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${UNAME_RELEASE}
exit ;;
  hades:*MiNT:* | hades:*mint:* | *hades:*TOS:*)
echo m68k-hades-mint${UNAME_RELEASE}
exit ;;
  *:MiNT:* | *:mint:* | *:TOS:*)
echo m68k-unknown-mint${UNAME_RELEASE}
exit ;;
  m68k:machten:*)
echo m68k-apple-machten${UNAME_RELEASE}
exit ;;
  powerpc:machten:*)
echo powerpc-apple-machten${UNAME_RELEASE}
exit ;;
  RISC*:Mach:*)
echo mips-dec-mach_bsd4.3
exit ;;
  RISC*:ULTRIX:*)
echo mips-dec-ultrix${UNAME_RELEASE}
exit ;;
  VAX*:ULTRIX:*)
echo vax-dec-ultrix${UNAME_RELEASE}
exit ;;
  2020:CLIX:* | 2430:CLIX:*)
echo clipper-intergraph-clix${UNAME_RELEASE}

```

```

exit ;;
    mips:*:*:UMIPS | mips:*:*:RISCos)
eval $set_cc_for_build
sed 's/^ //' << EOF >$dummy.c
#ifdef __cplusplus
#include <stdio.h> /* for printf() prototype */
int main (int argc, char *argv[]) {
#else
int main (argc, argv) int argc; char *argv[]; {
#endif
    #if defined (host_mips) && defined (MIPSEB)
    #if defined (SYSTYPE_SYSV)
        printf ("mips-mips-riscos%ssysv\n", argv[1]); exit (0);
    #endif
    #if defined (SYSTYPE_SVR4)
        printf ("mips-mips-riscos%ssvr4\n", argv[1]); exit (0);
    #endif
    #if defined (SYSTYPE_BSD43) || defined(SYSTYPE_BSD)
        printf ("mips-mips-riscos%bsbd\n", argv[1]); exit (0);
    #endif
    #endif
        exit (-1);
    }
EOF
$CC_FOR_BUILD -o $dummy $dummy.c &&
    dummyarg=`echo "${UNAME_RELEASE}" | sed -n 's/^([0-9]*\).*\1/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}x = m88kdguxelfx ] || \
        [ ${TARGET_BINARY_INTERFACE}x = x ]
    then
        echo m88k-dg-dgux${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*:*:R3*:*:*) # 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 $set_cc_for_build
sed 's/^ //' << EOF >$dummy.c
#include <sys/systemcfg.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/lscdev -C -c processor -S available | sed 1q | awk '{ print $1 }'`
if /usr/sbin/lscattr -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 ${UNAME_RELEASE}|sed -e 's/[^\.]*.[0B]*/'`
case "${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 "${sc_cpu_version}" in
523) HP_ARCH="hppa1.0" ;; # CPU_PA_RISC1_0
528) HP_ARCH="hppa1.1" ;; # CPU_PA_RISC1_1
532) # CPU_PA_RISC2_0
case "${sc_kernel_bits}" in
32) HP_ARCH="hppa2.0n" ;;
64) HP_ARCH="hppa2.0w" ;;
") HP_ARCH="hppa2.0" ;; # HP-UX 10.20
esac ;;
esac
fi
if [ "${HP_ARCH}" = "" ]; then
eval $set_cc_for_build
sed 's/^ //' << EOF >$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
(CCOPTS= $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 ${UNAME_RELEASE}|sed -e 's/[^\.]*[0B]*//'^
echo ia64-hp-hpux${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 ${UNAME_MACHINE}-unknown-osf1
fi
exit ;;
parisc*:Lites:*:*)
echo hppa1.1-hp-lites
exit ;;
C1*:ConvexOS:*:* | convex:ConvexOS:C1*:* )
echo c1-convex-bsd
exit ;;
C2*:ConvexOS:*:* | convex:ConvexOS:C2*:* )
if getsysinfo -f scalar_acc
then echo c32-convex-bsd
else echo c2-convex-bsd
fi
exit ;;
C34*:ConvexOS:*:* | convex:ConvexOS:C34*:* )
echo c34-convex-bsd
exit ;;
C38*:ConvexOS:*:* | convex:ConvexOS:C38*:* )
echo c38-convex-bsd
exit ;;
C4*:ConvexOS:*:* | convex:ConvexOS:C4*:* )
echo c4-convex-bsd
exit ;;
CRAY*Y-MP:*:*)
echo ymp-cray-unicos${UNAME_RELEASE} | sed -e 's/^[^.]*/.X/'
exit ;;
CRAY*[A-Z]90:*:*)
echo ${UNAME_MACHINE}-cray-unicos${UNAME_RELEASE} \
| sed -e 's/CRAY.*([A-Z]90)\^1/' \
    -e y/ABCDEFGHIJKLMNPOQRSTUVWXYZ/abcdefghijklmnopqrstuvwxyz/ \
    -e 's/^[^.]*/.X/'
exit ;;
CRAY*TS:*:*)
echo t90-cray-unicos${UNAME_RELEASE} | sed -e 's/^[^.]*/.X/'
exit ;;
CRAY*T3E:*:*)
echo alphaev5-cray-unicosmk${UNAME_RELEASE} | sed -e 's/^[^.]*/.X/'
exit ;;
CRAY*SV1:*:*)
echo sv1-cray-unicos${UNAME_RELEASE} | sed -e 's/^[^.]*/.X/'
exit ;;

```

```

*:UNICOS/mp:*)
echo craynv-cray-unicosmp${UNAME_RELEASE} | sed -e 's/^[^]*$/X/'
exit ;;
F30[01]:UNIX_System_V:*) | F700:UNIX_System_V:*)
FUJITSU_PROC=`uname -m | tr 'ABCDEFGHIJKLMNOPQRSTUVWXYZ' 'abcdefghijklmnopqrstuvwxyz'`
FUJITSU_SYS=`uname -p | tr 'ABCDEFGHIJKLMNOPQRSTUVWXYZ' 'abcdefghijklmnopqrstuvwxyz' | sed -e
's/\/\/'^
FUJITSU_REL=`echo ${UNAME_RELEASE} | sed -e 's/ /_/'`
echo "${FUJITSU_PROC}-fujitsu-${FUJITSU_SYS}${FUJITSU_REL}"
exit ;;
5000:UNIX_System_V:4:*)
FUJITSU_SYS=`uname -p | tr 'ABCDEFGHIJKLMNOPQRSTUVWXYZ' 'abcdefghijklmnopqrstuvwxyz' | sed -e
's/\/\/'^
FUJITSU_REL=`echo ${UNAME_RELEASE} | tr 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'
'abcdefghijklmnopqrstuvwxyz' | sed -e 's/ /_/'`
echo "sparc-fujitsu-${FUJITSU_SYS}${FUJITSU_REL}"
exit ;;
i*86:BSD/386:*) | i*86:BSD/OS:*) | *:Ascend\ Embedded\ OS:*)
echo ${UNAME_MACHINE}-pc-bsdi${UNAME_RELEASE}
exit ;;
sparc*:BSD/OS:*)
echo sparc-unknown-bsdi${UNAME_RELEASE}
exit ;;
*:BSD/OS:*)
echo ${UNAME_MACHINE}-unknown-bsdi${UNAME_RELEASE}
exit ;;
*:FreeBSD:*)
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 ;;
*:MINGW64:*)
echo ${UNAME_MACHINE}-pc-mingw64
exit ;;
*:MINGW:*)
echo ${UNAME_MACHINE}-pc-mingw32
exit ;;
i*:MSYS:*)
echo ${UNAME_MACHINE}-pc-msys
exit ;;
i*:windows32:*)

```

```

# uname -m includes "-pc" on this system.
echo ${UNAME_MACHINE}-mingw32
exit ;;
i*:PW*:*))
echo ${UNAME_MACHINE}-pc-pw32
exit ;;
*: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 ;;
    [345]86:Windows_95:* | [345]86:Windows_98:* | [345]86:Windows_NT:*)
        echo i${UNAME_MACHINE}-pc-mks
        exit ;;
        8664:Windows_NT:*)
            echo x86_64-pc-mks
            exit ;;
        i*:Windows_NT*:* | Pentium*:Windows_NT*:*))
            # 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 powerpcle-unknown-cygwin
                        exit ;;
                        prep*:SunOS:5.*:*))
                            echo powerpcle-unknown-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[^\.]*//'^
                            exit ;;
                            *:GNU*:**))
                                # the GNU system
                                echo `echo ${UNAME_MACHINE}|sed -e 's,[-/].*$,,'`-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 ;;
    criv32: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
#ifdef __dietlibc__
LIBC=dietlibc
#endif
EOF
eval ` $CC_FOR_BUILD -E $dummy.c 2>/dev/null | grep '^LIBC'`
echo "${UNAME_MACHINE}-pc-linux-${LIBC}"
exit ;;
    ia64:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
    m32r*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
    m68*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
    mips:Linux:*:* | mips64:Linux:*:*)
eval $set_cc_for_build
sed 's/^ //' << EOF >$dummy.c
#ifdef CPU
#ifdef ${UNAME_MACHINE}
#ifdef ${UNAME_MACHINE}el
#if defined(__MIPSEL__) || defined(__MIPSEL) || defined(_MIPSEL) || defined(MIPSEL)
CPU=${UNAME_MACHINE}el
#else
#if defined(__MIPSEB__) || defined(__MIPSEB) || defined(_MIPSEB) || defined(MIPSEB)
CPU=${UNAME_MACHINE}
#else
CPU=
#endif
#endif
#endif
EOF
eval ` $CC_FOR_BUILD -E $dummy.c 2>/dev/null | grep '^CPU'`
test x"${CPU}" != x && { echo "${CPU}-unknown-linux-${LIBC}"; exit; }

```



```

;;
  or32:Linux:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  padre:Linux:*)
echo sparc-unknown-linux-${LIBC}
exit ;;
  parisc64:Linux:* | hppa64:Linux:*)
echo hppa64-unknown-linux-${LIBC}
exit ;;
  parisc:Linux:* | hppa:Linux:*)
# Look for CPU level
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-${LIBC} ;;
esac
exit ;;
  ppc64:Linux:*)
echo powerpc64-unknown-linux-${LIBC}
exit ;;
  ppc:Linux:*)
echo powerpc-unknown-linux-${LIBC}
exit ;;
  s390:Linux:* | s390x:Linux:*)
echo ${UNAME_MACHINE}-ibm-linux
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:*:**)
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 ${UNAME_RELEASE} | sed 's/\MP$//`
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) \
    && UNAME_MACHINE=i686
    (/bin/uname -X|grep '^Machine.*Pentium Pro' >/dev/null) \
    && UNAME_MACHINE=i686
    echo ${UNAME_MACHINE}-pc-sco$UNAME_REL
else
    echo ${UNAME_MACHINE}-pc-sysv32
fi
exit ;;
    pc:*:*:*)
# Left here for compatibility:
# uname -m prints for DJGPP always 'pc', but it prints nothing about
# the processor, so we play safe by assuming i586.
# Note: whatever this is, it MUST be the same as what config.sub
# prints for the "djgpp" host, or else GDB configury will decide that
# this is a cross-build.
echo i586-pc-msdosdjgpp
exit ;;
    Intel:Mach:3:*:*)
echo i386-pc-mach3
exit ;;
    paragon:*:*:*)
echo i860-intel-osf1
exit ;;
    i860:*:4.*:*:*) # i860-SVR4
if grep Stardent /usr/include/sys/uadmin.h >/dev/null 2>&1 ; then
    echo i860-stardent-sysv${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 ;;

```

```

mc68k:UNIX:SYSTEM5:3.51m)
echo m68k-convergent-sysv
exit ;;
M680?0:D-NIX:5.3:*)
echo m68k-diab-dnix
exit ;;
M68*:*:R3V[5678]*:*)
test -r /sysV68 && { echo 'm68k-motorola-sysv'; exit; } ;;
3[345]??:*:4.0:3.0 | 3[34]??A:*:4.0:3.0 | 3[34]??,*:*:4.0:3.0 | 3[34]??/*:*: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-sysv4.3${OS_REL}; exit; }
/bin/uname -p 2>/dev/null | /bin/grep entium >/dev/null \
&& { echo i586-ncr-sysv4.3${OS_REL}; exit; } ;;
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-sysv4.3${OS_REL}; exit; }
/bin/uname -p 2>/dev/null | /bin/grep entium >/dev/null \
&& { echo i586-ncr-sysv4.3${OS_REL}; exit; }
/bin/uname -p 2>/dev/null | /bin/grep pteron >/dev/null \
&& { echo i586-ncr-sysv4.3${OS_REL}; exit; } ;;
m68*:LynxOS:2.*:* | m68*:LynxOS:3.0*:*))
echo m68k-unknown-lynxos${UNAME_RELEASE}
exit ;;
mc68030:UNIX_System_V:4.*:*)
echo m68k-atari-sysv4
exit ;;
TSUNAMI:LynxOS:2.*:*)
echo sparc-unknown-lynxos${UNAME_RELEASE}
exit ;;
rs6000:LynxOS:2.*:*)
echo rs6000-unknown-lynxos${UNAME_RELEASE}
exit ;;
PowerPC:LynxOS:2.*:* | PowerPC:LynxOS:3.[01]*:* | PowerPC:LynxOS:4.[02]*:*))
echo powerpc-unknown-lynxos${UNAME_RELEASE}
exit ;;
SM[BE]S:UNIX_SV:*:*)
echo mips-dde-sysv${UNAME_RELEASE}
exit ;;

```

```

    RM*:ReliantUNIX-*:*)
echo mips-sni-sysv4
exit ;;
    RM*:SINIX-*:*)
echo mips-sni-sysv4
exit ;;
    *:SINIX-*:*)
if uname -p 2>/dev/null >/dev/null ; then
    UNAME_MACHINE=`uname -p 2>/dev/null`
    echo ${UNAME_MACHINE}-sni-sysv4
else
    echo ns32k-sni-sysv
fi
exit ;;
    PENTIUM*:4.0*:*) # Unisys `ClearPath HMP IX 4000' SVR4/MP effort
    # says <Richard.M.Bartel@ccMail.Census.GOV>
echo i586-unisys-sysv4
exit ;;
    *:UNIX_System_V:4*:FTX*)
# From Gerald Hewes <hewes@openmarket.com>.
# How about differentiating between stratus architectures? -djm
echo hppa1.1-stratus-sysv4
exit ;;
    *:*:FTX*)
# From seanf@swdc.stratus.com.
echo i860-stratus-sysv4
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
echo ${UNAME_PROCESSOR}-${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${UNAME_RELEASE}
exit ;;
NSR-?:NONSTOP_KERNEL:*:*)
echo nsr-tandem-nsk${UNAME_RELEASE}
exit ;;
*:NonStop-UX:*:*)
echo mips-compaq-nonstopux
exit ;;
BS2000:POSIX*:*:*)
echo bs2000-siemens-sysv
exit ;;
DS/*:UNIX_System_V:*:*)
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:*:* | KL10: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 ()
{
#ifdef sony
#ifdef 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",
#ifdef NEWSOS4
"4"
#else
""
#endif
); exit (0);
#endif
#endif

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

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

#ifdef NeXT
#ifdef !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

#ifdef MULTIMAX || defined (n16)
#ifdef 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
#if defined (ns32000)
printf ("ns32k-sequent-dynix\n"); exit (0);
#endif
#endif

#if defined (_SEQUENT_)
struct utsname un;

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
# else
    printf ("vax-dec-bsd\n"); exit (0);
# endif
# else
    printf ("vax-dec-ultrix\n"); exit (0);
# endif
#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](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](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`
```

```
/usr/bin/uname -p = `(/usr/bin/uname -p) 2>/dev/null`
/bin/uname -X    = `(/bin/uname -X) 2>/dev/null`
```

```
hostinfo        = `(hostinfo) 2>/dev/null`
/bin/universe    = `(/bin/universe) 2>/dev/null`
/usr/bin/arch -k = `(/usr/bin/arch -k) 2>/dev/null`
/bin/arch        = `(/bin/arch) 2>/dev/null`
/usr/bin/oslevel = `(/usr/bin/oslevel) 2>/dev/null`
/usr/convex/getsysinfo = `(/usr/convex/getsysinfo) 2>/dev/null`
```

```
UNAME_MACHINE = ${UNAME_MACHINE}
UNAME_RELEASE = ${UNAME_RELEASE}
UNAME_SYSTEM   = ${UNAME_SYSTEM}
UNAME_VERSION  = ${UNAME_VERSION}
EOF
```

```
exit 1
```

```
# Local variables:
# eval: (add-hook 'write-file-hooks 'time-stamp)
# time-stamp-start: "timestamp="
```

# time-stamp-format: "%:y-%02m-%02d"

# time-stamp-end: ""

# End:

## 1.40 popt 1.5

### 1.40.1 Available under license :

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## 1.41 ntp 4.2.8p10

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<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
```

```
<html>
```

```
<head>
```

```
<meta http-equiv="content-type" content="text/html; charset=iso-8859-1">
```

```
<title>Copyright Notice</title>
```

```
<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->
```

```
<link href="scripts/style.css" type="text/css" rel="stylesheet">
```

```
</head>
```

```
<body>
```

```
<h3>Copyright Notice</h3>
```

```
 "Clone me," says Dolly sheepishly.
```

```
<p>Last update:
```

```
<!-- #BeginDate format:En2m -->2-Jan-2017 11:58<!-- #EndDate -->
```

```
UTC</p>
```

```
<br clear="left">
```

```
</p>
```

```
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```

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```

```

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```

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<li><a href="mailto:%20jack@innovativeinternet.com">Jack Sasportas <jack@innovativeinternet.com></a> Saved a Lot of space on the stuff in the html/pic/ subdirectory</li>

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- <li><a href="mailto:%20brian.utterback@oracle.com">Brian Utterback <brian.utterback@oracle.com></a> General codebase, Solaris issues</li>
- <li><a href="mailto:%20loganaden@gmail.com">Loganaden Velvindron <loganaden@gmail.com></a> Sandboxing (libseccomp) support</li>
- <li><a href="mailto:%20vixie@vix.com">Paul A Vixie <vixie@vix.com></a> TrueTime GPS driver, generic TrueTime clock driver</li>
- <li><a href="mailto:%20Ulrich.Windl@rz.uni-regensburg.de">Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de></a> corrected and validated HTML documents according to the HTML DTD</li>

</ol>

<hr>

</body>

</html>

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3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial  
line and PCI-bus devices
4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood  
<kirkwood@striderfm.intel.com> port to WindowsNT 3.5
5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
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10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
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13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
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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:

<http://lists.casi.polymtl.ca/pipermail/ltt-dev/2009-May/001584.html>

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

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

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

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

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code.

This cmpxchg code was obtained from the atomic\_ops project:

[http://www.hpl.hp.com/research/linux/atomic\\_ops/](http://www.hpl.hp.com/research/linux/atomic_ops/)

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

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

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Version 2, June 1991

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## 1.43 libusb 1.0.9

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## 1.45 ndpi 1.51.2

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## 1.50 ethtool 2.6

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```

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```

```
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```

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## 1.55 libsgutils 1.35

### 1.55.1 Available under license :

This package was debianized by Eric Schwartz <emschwar@debian.org> on  
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It was downloaded from <URL:http://sg.danny.cz/sg/>

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Douglas Gilbert  
10th April 2012

## 1.56 libnl3 3.2.25

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```
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Ty Coon, President of Vice
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## 1.57 libdnet 1.11

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=====

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I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>) licensed code is not allowed to be linked with code licensed under the

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```
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```

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```
## libssh2
```

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

## 1.60 python 2.7.6

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#### A. HISTORY OF THE SOFTWARE

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

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

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

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

Release	Derived	Year	Owner	GPL-
	from			compatible? (1)

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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```
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```

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```
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```

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```
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```

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

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## 1.65 sysv-init 2.78-4

### 1.65.1 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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```

```
<signature of Ty Coon>, 1 April 1989  
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From gsf@research.att.com Wed Mar 1 20:30:54 2006  
Return-Path: <gsf@research.att.com>  
X-Original-To: mps@bridge.intra  
Delivered-To: mps@bridge.intra  
Received: from localhost (localhost [127.0.0.1])  
by localhost (Postfix) with ESMTP id B8C814E4F  
for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)  
Received: from mail.bridge.intra ([127.0.0.1])  
by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)  
with LMTP id 05987-03 for <mps@bridge.intra>;  
Wed, 1 Mar 2006 20:30:42 +0100 (CET)  
Received: from pop.gmx.net (localhost [127.0.0.1])  
by mail.bridge.intra (Postfix) with ESMTP id C8C73794D  
for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:38 +0100 (CET)  
X-Flags: 0000  
Delivered-To: GMX delivery to ps.m@gmx.net  
Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000  
Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]  
by mx0.gmx.net (mx085) with SMTP; 01 Mar 2006 20:23:46 +0100  
Received: from raptor.research.att.com (raptor.research.att.com [135.207.23.32])  
by mail-blue.research.att.com (Postfix) with ESMTP id B7929147CBB  
for <ps.m@gmx.net>; Wed, 1 Mar 2006 14:23:45 -0500 (EST)  
Received: (from gsf@localhost)  
by raptor.research.att.com (SGI-8.9.3p2/8.8.7) id OAA86112  
for ps.m@gmx.net; Wed, 1 Mar 2006 14:23:45 -0500 (EST)  
Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)  
From: Glenn Fowler <gsf@research.att.com>  
Message-Id: <200603011923.OAA86112@raptor.research.att.com>  
Organization: AT&T Research  
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>  
To: mps@bridge.intra  
Subject: Re: testregex licensing question  
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)  
X-GMX-Antispam: 0 (Mail was not recognized as spam)  
X-GMX-UID: lJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca  
X-Virus-Scanned: by amavisd-new at localhost

Status: RO  
X-Status:  
X-Keywords:  
X-UID: 44736

you may include it directly  
retain the testregex.c header comment  
it uses a very free license to maximize distribution  
you can copy that .c comment to any test data files you use  
using # comment style to be complete

let me know how it works with your libc  
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:

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> licensing related info on testregex.

> 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  
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2

/\*

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```

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```

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```
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```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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## 1.68 busybox 1.26.2

### 1.68.1 Available under license :

```
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```

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30 atime=1337191922.583566431

30 ctime=1338052482.808834269

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Upstream-Name: rdma-core

Upstream-Contact: Doug Ledford <dledford@redhat.com>,  
Leon Romanovsky <Leon@kernel.org>

Source: <https://github.com/linux-rdma/rdma-core>

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Version 2, June 1991

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```

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```
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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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## 1.71 zlib 1.2.3

### 1.71.1 Available under license :

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

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\*/

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## 1.72 gdb 7.1.9

### 1.72.1 Available under license :

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

# Copyright (C) 2011-2019 Free Software Foundation, Inc.
#
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"""copyright.py
```

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

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

Always review the output of this script before committing it!

A useful command to review the output is:

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

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

```
"""
```

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

```
def get_update_list():
```

```
    """Return the list of files to update.
```

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

```
    """
```

```
    result = []
```

```
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
```

```
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
```

```
            for dirname in dirs:
```

```
                reldirname = "%s/%s" % (root, dirname)
```

```
                if (dirname in EXCLUDE_ALL_LIST
```

```
                    or reldirname in EXCLUDE_LIST
```

```
                    or reldirname in NOT_FSF_LIST
```

```
                    or reldirname in BY_HAND):
```

```
                    # Prune this directory from our search list.
```

```
                    dirs.remove(dirname)
```

```
            for filename in files:
```

```
                relpath = "%s/%s" % (root, filename)
```

```
                if (filename in EXCLUDE_ALL_LIST
```

```
                    or relpath in EXCLUDE_LIST
```

```
                    or relpath in NOT_FSF_LIST
```

```
                    or relpath in BY_HAND):
```

```
                    # Ignore this file.
```

```
                    pass
```

```
                else:
```

```
                    result.append(relpath)
```

```
    return result
```

```

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

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

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

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

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

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

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

    The filename is relative to the root directory.

```

This function assumes that the current working directory is that root directory.

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

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

fd = open(filename)

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

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

    update_list = get_update_list()
    update_files (update_list)

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

    if MULTIPLE_COPYRIGHT_HEADERS:
        print
        print("\033[31m"
              "REMINDER: Multiple copyright headers must be updated by hand:"
              "\033[0m")
        for filename in MULTIPLE_COPYRIGHT_HEADERS:
            print " ", filename

    if BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand." \
```



```

"\033[0m"
for filename in BY_HAND:
    print " ", filename

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

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (
    'gdb/nat/glibc_thread_db.h',
    'gdb/CONTRIBUTE',
    'gdb/gnulib/import'
)

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

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

# The list of files to update by hand.
BY_HAND = (
    # Nothing at the moment :-).
)

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

```

)

```
# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb.gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accfp.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
    # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_phb.c", "sim/ppc/hw_eeeprom.c", "sim/ppc/bits.h",
    "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
    "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
    "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
    "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
    "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
    "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
    "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
    "sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
    "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
    "sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
    "sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
    "sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
    "sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
    "sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
    "sim/ppc/bits.c", "sim/ppc/idecode_fields.h", "sim/ppc/hw_memory.c",
    "sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
    "sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
    "sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
    "sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
```

```

"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

```

```

if __name__ == "__main__":

```

```

    main()

```

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Version 2, June 1991

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<signature of Ty Coon>, 1 April 1990  
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That's all there is to it!  
/\* Native-dependent code for modern AMD64 BSD's.

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along with this program. If not, see <<http://www.gnu.org/licenses/>>. \*/

```
#ifndef AMD64_BSD_NAT_H  
#define AMD64_BSD_NAT_H
```

```
#include "x86-bsd-nat.h"
```

```
/* Helper functions. See definitions. */
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache,
        int regnum);
extern void amd64bsd_store_inferior_registers (struct regcache *regcache,
        int regnum);
```

```
/* A prototype *BSD/AMD64 target. */
```

```
template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
    void fetch_registers (struct regcache *regcache, int regnum) override
    { amd64bsd_fetch_inferior_registers (regcache, regnum); }

    void store_registers (struct regcache *regcache, int regnum) override
    { amd64bsd_store_inferior_registers (regcache, regnum); }
};
```

```
#endif /* i386-bsd-nat.h */
```

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Version 3, 29 June 2007

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```
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```

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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 */
};

#endif /* x86-bsd-nat.h */

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@c Set file name and title for man page.
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@settitle GNU General Public License
@c man begin SEEALSO
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```
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This is free software, and you are welcome to redistribute it
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```

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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";
print "show_copying_command (const char *ignore, int from_tty)";
print "{";
}
NR == 1,/^[ ]*15\ Disclaimer of Warranty\.[ ]*$/ {
if ($0 ~ //)
{
printf " printf_filtered (\\"\n\");\n";
}
else if ($0 !~ /^[ ]*15\ Disclaimer of Warranty\.[ ]*$/ )
{
printf " printf_filtered (\"";
for (i = 1; i < NF; i++)
printf "%s\\\"", $i;
printf "%s\\n\");\n", $NF;
}
}
/^[ ]*15\ Disclaimer of Warranty\.[ ]*$/ {
print "}";
print "";
print "static void";
print "show_warranty_command (const char *ignore, int from_tty)";
print "{";
}
/^[ ]*15\ Disclaimer of Warranty\.[ ]*$/,/^[ ]*END OF TERMS AND CONDITIONS[ ]*$/ {
if (! ($0 ~ /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/))
{
printf " printf_filtered (\"";
for (i = 1; i < NF; i++)
printf "%s\\\"", $i;
printf "%s\\n\");\n", $NF;
}
}
END {
print "}";
print "";
print "void"
print "_initialize_copying (void)";
print "{";
print " add_cmd (\\"copying\\", no_set_class, show_copying_command, ";
print " _(\\"Conditions for redistributing copies of GDB.\\"), ";
print " &showlist);";
print " add_cmd (\\"warranty\\", no_set_class, show_warranty_command, ";
print " _(\\"Various kinds of warranty you do not have.\\"), ";
print " &showlist);";
print "";
}

```



```
print " /* For old-timers, allow \"info copying\", etc. */";
print " add_info (\"copying\", show_copying_command,");
print " _(\"Conditions for redistributing copies of GDB.\");";
print " add_info (\"warranty\", show_warranty_command,");
print " _(\"Various kinds of warranty you do not have.\");";
print "};";
}
```

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Version 2.1, February 1999

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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>
#endif
#include <paths.h>
#include "readline/readline.h"
#include <sys/param.h>
#include <sys/proc.h>
#ifdef HAVE_SYS_USER_H
#include <sys/user.h>
#endif

#include "bsd-kvm.h"

/* Kernel memory device file. */
static const char *bsd_kvm_corefile;

/* Kernel memory interface descriptor. */
static kvm_t *core_kd;

/* Address of process control block. */
static struct pcb *bsd_kvm_paddr;

/* Pointer to architecture-specific function that reconstructs the
   register state from PCB and supplies it to REGCACHE. */
static int (*bsd_kvm_supply_pcb)(struct regcache *regcache, struct pcb *pcb);

/* This is the ptid we use while we're connected to kvm. The kvm
   target currently doesn't export any view of the running processes,
   so this represents the kernel task. */
static ptid_t bsd_kvm_ptid;

/* The libkvm target. */

```

```

static const target_info bsd_kvm_target_info = {
    "kvm",
    N_("Kernel memory interface"),
    N_("Use a kernel virtual memory image as a target.\n\
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 *readbuf,
        const gdb_byte *writebuf,
        ULONGEST offset, ULONGEST len,
        ULONGEST *xfered_len) override;

    void files_info () override;
    bool thread_alive (ptid_t ptid) override;
    const char *pid_to_str (ptid_t) override;

    bool has_memory () override { return true; }
    bool has_stack () override { return true; }
    bool has_registers () override { return true; }
};

/* Target ops for libkvm interface. */
static bsd_kvm_target bsd_kvm_ops;

static void
bsd_kvm_target_open (const char *arg, int from_tty)
{
    char errbuf[_POSIX2_LINE_MAX];
    char *execfile = NULL;
    kvm_t *temp_kd;
    char *filename = NULL;

    target_preopen (from_tty);

    if (arg)

```

```

{
    char *temp;

    filename = tilde_expand (arg);
    if (filename[0] != '/')
    {
        temp = concat (current_directory, "/", filename, (char *)NULL);
        xfree (filename);
        filename = temp;
    }
}

execfile = get_exec_file (0);
temp_kd = kvm_openfiles (execfile, filename, NULL,
    write_files ? O_RDWR : O_RDONLY, errbuf);
if (temp_kd == NULL)
    error ("%s", errbuf);

bsd_kvm_corefile = filename;
unpush_target (&bsd_kvm_ops);
core_kd = temp_kd;
push_target (&bsd_kvm_ops);

add_thread_silent (bsd_kvm_ptid);
inferior_ptid = bsd_kvm_ptid;

target_fetch_registers (get_current_regcache (), -1);

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

void
bsd_kvm_target::close ()
{
    if (core_kd)
    {
        if (kvm_close (core_kd) == -1)
            warning ("%s", kvm_geterr(core_kd));
        core_kd = NULL;
    }

    inferior_ptid = null_ptid;
    discard_all_inferiors ();
}

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,

```

```

    gdb_byte *readbuf, const gdb_byte *writebuf)
{
    ssize_t nbytes = len;

    if (readbuf)
        nbytes = kvm_read (core_kd, addr, readbuf, nbytes);
    if (writebuf && nbytes > 0)
        nbytes = kvm_write (core_kd, addr, writebuf, nbytes);
    return nbytes;
}

enum target_xfer_status
bsd_kvm_target::xfer_partial (enum target_object object,
    const char *annex, gdb_byte *readbuf,
    const gdb_byte *writebuf,
    ULONGEST offset, ULONGEST len, ULONGEST *xfered_len)
{
    switch (object)
    {
        {
        case TARGET_OBJECT_MEMORY:
            {
                LONGEST ret = bsd_kvm_xfer_memory (offset, len, readbuf, writebuf);

                if (ret < 0)
                    return TARGET_XFER_E_IO;
                else if (ret == 0)
                    return TARGET_XFER_EOF;
                else
                {
                    *xfered_len = (ULONGEST) ret;
                    return TARGET_XFER_OK;
                }
            }

        default:
            return TARGET_XFER_E_IO;
        }
    }
}

void
bsd_kvm_target::files_info ()
{
    if (bsd_kvm_corefile && strcmp (bsd_kvm_corefile, _PATH_MEM) != 0)
        printf_filtered (_("\tUsing the kernel crash dump %s.\n"),
            bsd_kvm_corefile);
    else
        printf_filtered (_("\tUsing the currently running kernel.\n"));
}

```

```

/* Fetch process control block at address PADDR. */

static int
bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)
{
    struct pcb pcb;

    if (kvm_read (core_kd, (unsigned long) paddr, &pcb, sizeof pcb) == -1)
        error ("%s", kvm_geterr (core_kd));

    gdb_assert (bsd_kvm_supply_pcb);
    return bsd_kvm_supply_pcb (regcache, &pcb);
}

void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
    struct nlist nl[2];

    if (bsd_kvm_paddr)
    {
        bsd_kvm_fetch_pcb (regcache, bsd_kvm_paddr);
        return;
    }

    /* On dumping core, BSD kernels store the faulting context (PCB)
       in the variable "dumppcb". */
    memset (nl, 0, sizeof nl);
    nl[0].n_name = "_dumppcb";

    if (kvm_nlist (core_kd, nl) == -1)
        error ("%s", 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", 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", kvm_geterr (core_kd));

    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' for the initial thread for proc0 can be found in the
variable "thread0". */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_thread0";

if (kvm_nlist (core_kd, nl) == -1)
    error ("%s", kvm_geterr (core_kd));

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

    /* Found thread0. */
    nl[0].n_value += offsetof (struct thread, td_pcb);
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
error ("%s", kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
}
#endif

/* i18n: PCB == "Process Control Block". */
error (_("Cannot find a valid PCB"));
}

/* Kernel memory interface commands. */

```

```

struct cmd_list_element *bsd_kvm_cmdlist;

static void
bsd_kvm_cmd (const char *arg, int fromtty)
{
    /* ??? Should this become an alias for "target kvm"? */
}

#ifndef HAVE_STRUCT_THREAD_TD_PCB

static void
bsd_kvm_proc_cmd (const char *arg, int fromtty)
{
    CORE_ADDR addr;

    if (arg == NULL)
        error_no_arg (_, "proc address");

    if (core_kd == NULL)
        error (_, "No kernel memory image.");

    addr = parse_and_eval_address (arg);
#ifdef HAVE_STRUCT_LWP
    addr += offsetof (struct lwp, l_addr);
#else
    addr += offsetof (struct proc, p_addr);
#endif

    if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)
        error ("%s", 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);
}

#endif

static void
bsd_kvm_pcb_cmd (const char *arg, int fromtty)
{
    if (arg == NULL)
        /* i18n: PCB == "Process Control Block". */
        error_no_arg (_, "pcb address");

    if (core_kd == NULL)
        error (_, "No kernel memory image.");
}

```

```

bsd_kvm_paddr = (struct pcb*)(u_long) parse_and_eval_address (arg);

target_fetch_registers (get_current_regcache (), -1);

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

bool
bsd_kvm_target::thread_alive (ptid_t ptid)
{
    return true;
}

const char *
bsd_kvm_target::pid_to_str (ptid_t ptid)
{
    static char buf[64];
    xsnprintf (buf, sizeof buf, "<kvm>");
    return buf;
}

/* Add the libkvm interface to the list of all possible targets and
   register CUPPLY_PCB as the architecture-specific process control
   block interpreter. */

void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
    gdb_assert (bsd_kvm_supply_pcb == NULL);
    bsd_kvm_supply_pcb = supply_pcb;

    add_target (bsd_kvm_target_info, bsd_kvm_target_open);

    add_prefix_cmd ("kvm", class_obscure, bsd_kvm_cmd, _("\\
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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```
#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H

/* Helper functions. See definitions. */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache,
      int regnum);
extern void i386bsd_store_inferior_registers (struct regcache *regcache,
      int regnum);

/* A prototype *BSD/i386 target. */

template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
    void fetch_registers (struct regcache *regcache, int regnum) override
    { i386bsd_fetch_inferior_registers (regcache, regnum); }

    void store_registers (struct regcache *regcache, int regnum) override
    { i386bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */
```

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```
>>> cvtutf-1.4
>>> freebsd-1.72
>>> freebsd-base64-4.8
>>> unicode-5.0
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>>> freebsd-base64-4.8

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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Version 2.8, 17 August 2003

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>>> unicode-5.0

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## 1.85 libsrtp 1.4.4

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ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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QLogic Linux Networking HBA Driver

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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
line to the DVB mailing list)

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QLogic Linux qlenic NIC Driver

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The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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

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\*  
\* M. Welsh, 6 July 1996  
\*  
\*/

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