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1.4 xmlrpc-c 1.06.38

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

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

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

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

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

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

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

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20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jagielinski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26]Jeff Johnson <buj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl起源-it.com> or [28]H.Lambermont@chello.nl> ntpswEEP
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling

29. Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote snntp to comply with NTPv4 specification, ntpq saveconfig
30. William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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37. David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
39. Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. Tom Moore <tmoore@fievel.daytonoh.nrc.com> i386 svr4 port
41. Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. Derek Mulcahy <derek@toobox.demon.co.uk> and Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. Michael Shields <shields@tembel.org> USNO clock driver
51. Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
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(libseccomp) support
58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic
    TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}. This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
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concluded that weaker conditions might promote sharing better.

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

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Otherwise, if the work is a derivative of the Library, you may
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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

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

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

In other cases, permission to use a particular library in non-free
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@iftex
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
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@enumerate
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@end enumerate

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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@end ifinfo

@page
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Ty Coon, President of Vice
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1.11 netkit-telnet 0.17
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1.12 e2fsprogs 1.38

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Theodore Ts'o
23-June-2007
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*/

Index: tdbsa/tdb.c

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

 - trivial database library - private includes
 -
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 ** 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) $(my_dir) | sed -e 's;lib/;;'"/$(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-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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1.17 zlib 1.2.8

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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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1.19 glib 2.46.2

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1.21 zlib 1.2.3

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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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1.22 ipmi-tool 1.8.9

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1.23 libcap 1.10

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*/

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Written by: Philip Hazel
Email local part: ph10
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---------------------------------------------------------------------------

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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 (deflate format) and rfc1952.txt (gzip format).
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* 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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1.37 libsgutils 1.35

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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END OF TERMS AND CONDITIONS

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

<one line to give the library's name and a brief idea of what it does.>
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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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Ty Coon, President of Vice

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Preamble

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

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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

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

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

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

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

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

d) If a facility in the modified Library refers to a function or a

table of data to be supplied by an application program that uses

the facility, other than as an argument passed when the facility

is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or

table, the facility still operates, and performs whatever part of

its purpose remains meaningful.

(For example, a function in a library to compute square roots has

a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must

be optional: if the application does not supply it, the square

root function must still compute square roots.)

These requirements apply to the modified work as a whole. If

identifiable sections of that work are not derived from the Library,

and can be reasonably considered independent and separate works in

themselves, then this License, and its terms, do not apply to those

sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based

on the Library, the distribution of the whole must be on the terms of

this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote

it.

Thus, it is not the intent of this section to claim rights or contest

your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or

collective works based on the Library.

In addition, mere aggregation of another work not based on the Library

with the Library (or with a work based on the Library) on a volume of

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the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public

License instead of this License to a given copy of the Library. To do

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that they refer to the ordinary GNU General Public License, version 2,

instead of to this License. (If a newer version than version 2 of the

ordinary GNU General Public License has appeared, then you can specify

that version instead if you wish.) Do not make any other change in
these notices.

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

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

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

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

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

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

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

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

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

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That's all there is to it!
Mathieu Desnoyers
May 13th, 2009
IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


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

commit id : 2dc5fa0f7cfb0a6447a7a67b39626650e863f16a

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

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

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

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

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

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

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

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.43 libnl3 3.2.25

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d) If a facility in the modified Library refers to a function or a
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   table, the facility still operates, and performs whatever part of
   its purpose remains meaningful.

   (For example, a function in a library to compute square roots has
   a purpose that is entirely well-defined independent of the
   application. Therefore, Subsection 2d requires that any
   application-supplied function or table used by this function must
   be optional: if the application does not supply it, the square
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These requirements apply to the modified work as a whole. If
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Thus, it is not the intent of this section to claim rights or contest
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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ConferenceTV card

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#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * * http://www.hypermall.com/
 * * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * *interrupts us (except possibly for removal/insertion of the cable?)
 * * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * *and spelling mistakes.
 * * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * *loss of link, and correctly re-enable PHY when link is
 * *re-established. (put back CFG_PHYIE)
 * *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 * *
 * 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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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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1.50 pcre 8.41

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1.55 sysv-init 2.78

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    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type 'show c' for details.
The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items—whatever suits your program.

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.56 gdb 7.1.9
1.56.1 Available under license :

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

# Copyright (C) 2011-2019 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
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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.

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

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

    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!).  The names of
    the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
                    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):
```
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."""

    return True
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"
              "REMINDEER: Multiple copyright headers must be updated by hand:"
              "\033[0m")
        for filename in MULTIPLE_COPYRIGHT_HEADERS:
            print " ", filename

    if BY_HAND:
        print
        print "\033[31mREMINDEER: 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/arms.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armsos.h", "sim/arm/armcpro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accfp.c",
    "sim/mips/ml16run.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/hwSem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
    "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
    "sim/ppc/options.h", "sim/ppc/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_idc.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
    "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
    "sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
    "sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
    "sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
    "sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
    "sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
    "sim/ppc/bits.c", "sim/ppc/decode_fields.h", "sim/ppc/hw_memory.c",
    "sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
    "sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
    "sim/ppc/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/mem.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
    "sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",  
)}
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/ff.c", "sim/ppc/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/decode_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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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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

1. You may copy and distribute verbatim copies of the Library’s
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of it, thus forming a work based on the Library, and copy and
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c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

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

7. You may place library facilities that are a work based on the
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facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
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/* Native-dependent code for modern AMD64 BSD's.

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ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#include "x86-bsd-nat.h"

/* Helper functions. See definitions. */
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache,
int regnum);
extern void amd64bsd_store_inferior Registers (struct regcache *regcache,
int regnum);

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

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

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

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

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#define X86_BSD_NAT_H

#include "x86-nat.h"

/* Low level x86 XSAVE info. */
extern size_t x86bsd_xsave_len;
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 */

/* A prototype *BSD/x86 target. */

@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

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@end 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\n";
  }
else if ($0 !~ /*\[ ]*15\. Disclaimer of Warranty\.[ ]*$/)
  {
    printf " printf_filtered (";
    for (i = 1; i < NF; i++)
printf "%s\n", $i;
    printf "%s\n\n", $NF;
  }
}/*\[ ]*15\. Disclaimer of Warranty\.[ ]*$/{
  print "]\"; 
  print "\n; 
  printf "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\n", $i;
    printf "%s\n\n", $NF;
  }
}END{
  print "]\"; 
  print "\n; 
  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 "\n; 
  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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That's all there is to it!

/* BSD Kernel Data Access Library (libkvm) interface.

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#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
#include "process-stratum-target.h"
#include "value.h"
#include "gdbcore.h"
#include "inferior.h"          /* for get_exec_file */
#include "gdbthread.h"

#include <fcntl.h>
#include <kvm.h>
#ifdef HAVE_NLIST_H
#include <nlist.h>
#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",
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 (_("Using the kernel crash dump %s\n"),
            bsd_kvm_corefile);
    else
        printf_filtered (_("Using the currently running kernel\n"));
}

/* Fetch process control block at address PADDR. */
static int
bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)
{
    struct pcb pcb;

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

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

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

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

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

    if (kvm_nlist (core_kd, nl) == -1)
        error ("%s"), 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);
#ifndef HAVE_STRUCT_LWP
    addr += offsetof (struct lwp, l_addr);
#else
    addr += offsetof (struct proc, p_addr);
#endif

    if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)
        error ("%s");
    target_fetch_registers (get_current_regcache (), -1);
    reinit_frame_cache ();
    print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}
#endif

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

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

    bsd_kvm_paddr = (struct pcb *)(u_long) parse_and_eval_address (arg);
target_fetch_registers (get_current_regcache (), -1);

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

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

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

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

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

    add_target (bsd_kvm_target_info, bsd_kvm_target_open);

    add_prefix_cmd ("kvm", class_obscure, bsd_kvm_cmd, _("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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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
/* Native-dependent code for modern i386 BSD's.

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1.57 ncurses 5.9

1.57.1 Available under license:

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

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

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Calling this script install-sh is preferred over install.sh, to prevent `make' implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

On Debian systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2`

1.58 curl 7.62.0

1.58.1 Available under license:

License Mixing

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

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

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

## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

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(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not
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## GnuTLS

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## WolfSSL

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## BoringSSL

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## libressl

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## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very
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## zlib

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

## MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

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## GNU GSS

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## libssh2

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

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1.59 net-snmp 5.1.1

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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.4.44.06030120111250.6386-100000@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: IJF3ZO9DeSEkJ2TcbHQhaXN11GRvb0Ca
X-Virus-Scanned: by amavisd-new at localhost
Status: RO
X-Status:
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:
> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> 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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1.63 busybox 1.26.2
1.63.1 Available under license :

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1.64 ftpd-bsd 0.3.2

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

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

.include <bsd.prog.mk>
# 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 $
# @(#)Makefile8.2 (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.yp.to/ftp/list/eplf.html for a description), and I wonder whether it is worth implementing (in particular, whether some clients understand it): I might try contacting the OpenBSD people about this.

--
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1.65 rng-tools 5
1.65.1 Available under license:

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1.67 sysv-init 2.78-4

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

/*
minibz2
libbz2.dll test program.
by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
*/

1.69 kexec-tools 2.0.14
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#!/bin/sh

# Attempt to guess a canonical system name.
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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=""
Originally written by Per Bothner.
Free Software Foundation, Inc.

This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE."

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

# Parse command line
while test $# -gt 0 ; do
  case $1 in
    --time-stamp | --time* | -t )
      echo "Stimestamp" ; exit ;;
    --version | -v )
      echo "$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.
set cc for build=
traps "exitcode=${$?}; (rm -f $tmpfiles 2>/dev/null; rmdir $tmp 2>/dev/null) && exit $exitcode" 0;
traps "rm -f $tmpfiles 2>/dev/null; rmdir $tmp 2>/dev/null; exit 1" 1 2 13 15;
$TMPDIR=/tmp
{ tmp=$(umask 077 && mktemp -d "$TMPDIR/cgXXXXXX") 2>/dev/null && test -n "$tmp" && test -d "$tmp";
} ||
{ test -n "$RANDOM" && tmp=$TMPDIR/cg$RANDOM && (umask 077 && mkdir $tmp) ; } ||
{ tmp=$TMPDIR/cg-$RANDOM && (umask 077 && mkdir $tmp) && echo "Warning: creating insecure temp directory" >&2 ; } ||
{ echo "$me: cannot create a temporary directory in $TMPDIR" >&2 ; exit 1 ; };
dummy=$tmp/dummy;
tmpfiles="$dummy.c $dummy.o $dummy.rel $dummy";
case SCC_FOR_BUILD,HOST_CC,S 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"SCC_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 /dev/null 2>&1 ; then
  PATH=$PATH:/tmp ; 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
fi
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*, *-*-netbsdaout*,
  # *-*-netbsdecoff* 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__ | $CC_FOR_BUILD -E - 2>/dev/null \n        | grep -q __ELF__
      then
        # Once all utilities can be ECOFF (netbsdecoff) or a.out (netbsdaout).
        # Return netbsd for either. FIX?
        os=netbsd
      else
        os=netbsdelf
      fi
    ;;
    *)
      os=netbsd
  esac
  #
esac
# The OS release
# Debian GNU/NetBSD machines have a different userland, and
# thus, need a distinct triplet. However, they do not need
# kernel version information, so it can be replaced with a
# suitable tag, in the style of linux-gnu.
case "${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="alphaev5" ;;
  "EV5.6 (21164PC)"
  UNAME_MACHINE="alphaev5" ;;
  "EV5.7 (21164PC)"
  UNAME_MACHINE="alphaev5" ;;
  "EV6 (21264)"
  UNAME_MACHINE="alphaev6" ;;
  "EV6.7 (21264A)"
  UNAME_MACHINE="alphaev6" ;;
  "EV6.8CB (21264C)"
  UNAME_MACHINE="alphaev6" ;;
  "EV6.8AL (21264B)"
  UNAME_MACHINE="alphaev6" ;;
  "EV6.8CX (21264D)"
  UNAME_MACHINE="alphaev6" ;;
  "EV6.9A (21264/EV69A)"
  UNAME_MACHINE="alphaev6" ;;
  "EV7 (21364)"
  UNAME_MACHINE="alphaev7" ;;
  "EV7.9 (21364A)"
  UNAME_MACHINE="alphaev7" ;;
esac
# A Pn.n version is a patched version.
# A Vn.n version is a released version.
# A Tn.n version is a released field test version.
# A Xn.n version is an unreleased experimental baselevel.
# 1.2 uses "1.2" for uname -r.
echo ${UNAME_MACHINE}-dec-osf`echo ${UNAME_RELEASE} | sed -e 's/^[PVTX]// | tr 'ABCDEFGHIJKLMNOPQRSTUVWXYZ' 'abcdefghijklmnopqrstuvwxyz'`
```

Reset EXIT trap before exiting to avoid spurious non-zero exit code.
```
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}
exiit ::
  arm:riscos:*::*arm:RISCOS:*::*
echo arm-unknown-riscos
exit ::
  SR2?01:HI-UX/MPP:*::* | SR8000:HI-UX/MPP:*::*
echo hppa1.1-hitachi-hixxmpp
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/[\^.]*//r'
exit ;;
sun4H:SunOS:5.5:*:*)
echo sparc-hal-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[\^.]*//r'
exit ;;
sun4*:SunOS:5.5:* | tadpole*:SunOS:5.5:*)
echo sparc-sun-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[\^.]*//r'
exit ;;
i86pc:AuroraUX:5.5:*: | i86xen:AuroraUX:5.5:*:)
echo i386-pc-auroraux$[UNAME_RELEASE]
exit ;;
i86pc:SunOS:5.5:*: | i86xen:SunOS:5.5:*)
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

SUN_ARCH="$SUN\_ARCH-pc-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[\^.]*//r'
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/[\^.]*//r'
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

exit

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

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 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-atarist-mint$[UNAME_RELEASE]
exit ;;
  atari*:MiNT:*:* | atari*:mint:*:* | atarist[e]:*TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_Release]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAMERELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAMERELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-atarist-mint$[UNAME_RELEASE]
exit ;;
  falcon*:MiNT:*:* | falcon*:mint:*:* | falcon*:TOS:*:*)
echo m68k-unknown-mint$[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 $set_cc_for_build
sed 's/\t//' << EOF >$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%s\n", argv[1]); exit (0);
#endif
#if defined (SYSTYPE_SVR4)
printf ("mips-mips-riscos%svr4\n", argv[1]); exit (0);
#endif
#else
#endif
exit (-1);
}
EOF
SCC_FOR_BUILD -o $dummy $dummy.c &
dummyargv=`echo \"$\{UNAME_RELEASE\}\" | sed -n s/\([0-9]\+\).*/\1/p` &&
SYSTEM_NAME=`$dummy $dummyargv` &&
{ echo "$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:CU/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*:*:*:*) # Tektronix XD88 system running UTekV (SVR3)
echo m88k-tektronix-sysv3
exit ::
    Tek43[0-9][0-9]:UTek:*:*) # Tektronix 4300 system running UTek (BSD)
echo m68k-tektronix-bsd
exit ::
*:IRIX*:*)
echo mips-sgi-irix`echo ${UNAME_RELEASE}|sed -e 's/-/\_/g'`
exit ;;

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

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

*:AIX:2:3)
if grep bos325 /usr/include/stdio.h >/dev/null 2>&1; then
eval $set_cc_for_build
sed 's/\t\t//' << EOF >$dummy.c
#include <sys/systemcfg.h>
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="/sbin/ifconfig -c processor -S available | sed 1q | awk '{ print $1 }"
if /sbin/lsattr -El $IBM_CPU_ID | grep 'POWER' >/dev/null 2>&1; then
IBM_ARCH=rs6000
else
IBM_ARCH=powerpc
fi
if [ -x /usr/bin/oslevel ]; then
IBM_REV="/usr/bin/oslevel"
else
IBM_REV=${UNAME_VERSION}.${UNAME_RELEASE}
fi

echo $[IBM_ARCH]-ibm-aix$[IBM_REV]
exit ;;
*:AIX:*:*)
echo rs6000-ibm-aix
exit ;;
ibmrt:4.4BSD:*|romp-ibm:BSD:*)
echo romp-ibm-bsd4.4
exit ;;
ibmrt:*BSD:*|romp-ibm:BSD:*) # covers RT/PC BSD and
echo romp-ibm-bsd$[UNAME_RELEASE] # 4.3 with uname added to
exit ;; # report: romp-ibm BSD 4.3
*:BOSX:*:*)
echo rs6000-bull-bosx
exit ;;
DPX/2700:B.O.S.*:*)
echo m68k-bull-sysv3
exit ;;
9000/[34]??:4.3bsd:1:*:*)
echo m68k-hp-bsd
exit ;;
hp300:4.4BSD:*:* | 9000/[34]??:4.3bsd:2:*:*)
echo m68k-hp-bsd4.4
exit ;;
9000/[34678]??:HP-UX:*:*)
HPUX_REV=`echo ${UNAME_RELEASE}|sed -e 's/\[0B\]*/\r/'`
case "${UNAME_MACHINE}" in
  9000/31?) HP_ARCH=m68000 ;;
  9000/[34]??) HP_ARCH=m68k ;;
  9000/[678][0-9][0-9])
if [ -x /usr/bin/getconf ]; then
  sc_cpu_version="/usr/bin/getconf SC_CPU_VERSION 2>/dev/null"
  sc_kernel_bits="/usr/bin/getconf SC_KERNEL_BITS 2>/dev/null"
  case "${sc_cpu_version}" in
    523) HP_ARCH="hppa1.0" ;; # CPU_PA_RISC1_0
    528) HP_ARCH="hppa1.1" ;; # CPU_PA_RISC1_1
    532) # CPU_PA_RISC2_0
  esac
  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 $set_cc_for_build
  sed 's/^//g' EOF >$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= $CCFOR_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:
  #
  # $ CCFOR_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
SCC_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 ;;

CRAZY*Y-MP*:*)

echo ymp-crzy-unicos${UNAME_RELEASE} | sed -e 's/\.[^.]*/.X/'
exit ;;

CRAZY*[A-Z]90*:*)
echo ${UNAME_MACHINE}-cray-unicos${UNAME_RELEASE} \
| sed -e 's/CRAY.*([A-Z]90)/\1/' \
- e y/ABCDEFGHIJKLMNOPQRSTUVWXYZ/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 ::
*:BSD/OS:*:*:
echo sparc-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 ;;
   authenticity | genuineintel | EM64T)
   echo x86_64-unknown-interix${UNAME_RELEASE}
exit ;;
   IA64)
   echo ia64-unknown-interix${UNAME_RELEASE}
exit ;;
esac ;;
   echo i${UNAME_MACHINE}-pc-mks
exit ;;
   8664:Windows_NT:*)
   echo x86_64-64-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/[^.]*//'
exit ::
    *:*GNU:*:*'

# other systems with GNU libc and userland

echo ${UNAME_MACHINE}-unknown-linux-gnu
exit ::
    aarch64:Linux:*:*'

echo ${UNAME_MACHINE}-pc-minix
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="gnumibc1" ; 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

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if echo __ARM_PCS_VFP | $CC_FOR_BUILD -E - 2>/dev/null \
| grep -q __ARM_PCS_VFP
then
    echo ${UNAME_MACHINE}-unknown-linux-gnueabi
else
    echo ${UNAME_MACHINE}-unknown-linux-gnueabihf
fi
fi
exit ;;
avr32*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
cris:Linux:*:*)
echo ${UNAME_MACHINE}-axis-linux-${LIBC}
exit ;;
crisv32:Linux:*:*)
echo ${UNAME_MACHINE}-axis-linux-${LIBC}
exit ;;
frv:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
hexagon:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
i*86:Linux:*:*)
LIBC=gnu
eval $set_cc_for_build
sed 's/^/ // << EOF >$dummy.c
#ifdef __dietlibc__
LIBC=dietlibc
#endif
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 __dietlibc__
LIBC=dietlibc
#endif
LIBC=dietlibc
#endif
EOF
eval `$CC_FOR_BUILD -E $dummy.c 2>/dev/null | grep '^LIBC'
echo "${UNAME_MACHINE}-pc-linux-${LIBC}"
exit ;;
if echo __ARM_PCS_VFP | $CC_FOR_BUILD -E - 2>/dev/null \
| grep -q __ARM_PCS_VFP
then
    echo ${UNAME_MACHINE}-unknown-linux-gnueabi
else
    echo ${UNAME_MACHINE}-unknown-linux-gnueabihf
fi
fi
exit ;;
avr32*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
cris:Linux:*:*)
echo ${UNAME_MACHINE}-axis-linux-${LIBC}
exit ;;
crisv32:Linux:*:*)
echo ${UNAME_MACHINE}-axis-linux-${LIBC}
exit ;;
frv:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
hexagon:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
i*86:Linux:*:*)
LIBC=gnu
eval $set_cc_for_build
sed 's/^/ // << EOF >$dummy.c
#ifdef __dietlibc__
LIBC=dietlibc
#endif
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 __dietlibc__
LIBC=dietlibc
#endif
LIBC=dietlibc
#endif
EOF
eval `$CC_FOR_BUILD -E $dummy.c 2>/dev/null | grep '^LIBC'
echo "${UNAME_MACHINE}-pc-linux-${LIBC}"
exit ;;
if echo __ARM_PCS_VFP | $CC_FOR_BUILD -E - 2>/dev/null \
| grep -q __ARM_PCS_VFP
then
    echo ${UNAME_MACHINE}-unknown-linux-gnueabi
else
    echo ${UNAME_MACHINE}-unknown-linux-gnueabihf
fi
fi
exit ;;
avr32*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
cris:Linux:*:*)
echo ${UNAME_MACHINE}-axis-linux-${LIBC}
exit ;;
crisv32:Linux:*:*)
echo ${UNAME_MACHINE}-axis-linux-${LIBC}
exit ;;
frv:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
hexagon:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
i*86:Linux:*:*)
LIBC=gnu
eval $set_cc_for_build
sed 's/^/ // << EOF >$dummy.c
#ifdef __dietlibc__
LIBC=dietlibc
#endif
LIBC=dietlibc
#endif
EOF
eval `$CC_FOR_BUILD -E $dummy.c 2>/dev/null | grep '^LIBC'
echo "${UNAME_MACHINE}-pc-linux-${LIBC}"
#undef ${UNAME_MACHINE}
#undef ${UNAME_MACHINE}el
#if defined(__MIPSEL__) || defined(__MIPSEL) || defined(_MIPSEL) || defined(MIPSEL)
CPU=${UNAME_MACHINE}el
#else
#if defined(__MIPSEB__) || defined(__MIPSEB) || defined(_MIPSEB) || defined(MIPSEB)
CPU=${UNAME_MACHINE}
#else
CPU=
#endif
#endif
EOF
eval `$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 ${UNAME_MACHINE}-unknown-linux-${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 ${UNAME_MACHINE}-pc-msdosdjgpp
exit ::
UNAME_REL=`echo '${UNAME_RELEASE}' | sed 's/\//\//g'`
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
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
fi
exit ::
  Intel:Mach:3:*)
  echo i386-pc-mach3
fi
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 \'/^[ ]{0-9}/p' < /etc/relid`
    /bin/uname \-p 2>/dev/null | grep 86 >/dev/null 
        && { echo i486-ncr-sysv4.3S\{OS\_REL\}; exit; } ;;
    /bin/uname \-p 2>/dev/null | /bin/grep pteron >/dev/null 
        && { echo i586-ncr-sysv4.3S\{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 \'/^[ ]{0-9}/p' < /etc/relid`
    /bin/uname \-p 2>/dev/null | grep 86 >/dev/null 
        && { echo m68k-unknown-lynxos\$\{UNAME\_RELEASE\}; exit; } ;;
    /bin/uname \-p 2>/dev/null | /bin/grep pteron >/dev/null 
        && { echo i586-ncr-sysv4.3S\{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`
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 ${UNAME_MACHINER:s}-${UNAME_RELEASE}
exits ::
*:Darwin:*:*
UNAME PROPROCESSOR=`uname -p` || UNAME_PROCESSOR=unknown
case $UNAME_PROCESSOR in
  i386)
    eval $set_cc_for_build
    if [ "SCC_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 ${UNAME_PROCESSOR}-${UNAME_MACHINE}-nto-qnx${UNAME_RELEASE}
exits ;;
*:procnto:*:*:* | *:QNX:[0123456789]*:*:
UNAME_PROCESSOR=`uname -p`
if test "$UNAME_PROCESSOR" = "x86"; then
  UNAME_PROCESSOR=i386
  UNAME_MACHINE=pc
  fi
    echo ${UNAME_PROCESSOR}-${UNAME_MACHINE}-nto-qnx${UNAME_RELEASE}
exits ::
*:QNX:*:4*)
    echo i386-pc-qnx
exits ;;
NEO-?:NONSTOP KERNEL::*::*
    echo neo-tandem-nsk${UNAME_RELEASE}
exits ::
NSE-%:NONSTOP_KERNEL::*::*
    echo nse-tandem-nsk${UNAME_RELEASE}
exits ::
NSR-?:NONSTOP_KERNEL::*::*
    echo nsr-tandem-nsk${UNAME_RELEASE}
exits ::
*:NonStop-UX::*::*
    echo mips-compaq-nonstopux
exits ::
BS2000:POSIX::*::*
    echo bs2000-siemens-sysv
exits ;;
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/[-[1-9]*\[.*\]//')
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 ${UNAME_RELEASE}` | sed -e 's/ .*$//' | 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
#include <sys/types.h>
#include <sys/utsname.h>
#endif
main ()
{
#if defined (sony)
#define _SEQUENT_
#include <sys/types.h>
#include <sys/utsname.h>
#endif
main ()
{
#define _SEQUENT_
#include <sys/types.h>
#include <sys/utsname.h>
#endif
main ()
{
#endif
else
#include <sys/param.h>
printf ("m68k-%s\n", 
#include <sys/param.h>
printf ("m68k-%s\n", 
#define NEWSOS4
"4"
#else
==
#endif
); exit (0);
#endif
#endif
#endif
#endif
#endif
#endif
else
==
#endif
}
#endif
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```

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

int version;

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

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

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

#if defined (sequent)
#if defined (i386)
  printf ("i386-sequent-dynix\n"); exit (0);
#endif
#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-pty2\n"); exit (0);
  }
  if (strncmp(un.version, "V1", 2) == 0) { /* XXX is V1 correct? */
    printf ("i386-sequent-pty1\n"); exit (0);
  }
#endif
printf ("i386-sequent-pxt\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-ultrix\n"); exit (0);
  # endif
#endif

#if defined (alliant) && defined (i860)
  printf ("i860-alliant-bsd\n"); exit (0);
#endif

exit (1);
}

EOF

SCC_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 ;;
  esac
fi

Open Source Used In StarOS 21.22 896
c2*)
if getsysinfo -f scalar_acc
then echo c32-convex-bsd
else echo c2-convex-bsd
fi
exit ::
  c34*)
echo c34-convex-bsd
exit ::
  c38*)
echo c38-convex-bsd
exit ::
  c4*)
echo c4-convex-bsd
exit ::
esac
fi

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

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

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

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

config.guess timestamp = $timestamp

uname -m = `(`uname -m) 2>/dev/null || echo unknown`'
uname -r = `(`uname -r) 2>/dev/null || echo unknown`'
uname -s = `(`uname -s) 2>/dev/null || echo unknown`'
uname -v = `(`uname -v) 2>/dev/null || echo unknown`'

/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:

1.72 libnl3 3.2.25
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Version 2.1, February 1999

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1.73 ipmiutil 2.1.1

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1.74 zlib 1.2.7

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1.75 libnuma 2.0.11

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1.76 libnfsidmap 0.20

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1.77 xfsprogs 2.8.16-1

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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
convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <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 2 of the License, or (at your option) any later version.

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

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

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

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the
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1.84 pciutils 3.1.8
1.84.1 Available under license:

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Version 2, June 1991

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

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a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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

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

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

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

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The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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'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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1.85 libmnl 1.0.3
1.85.1 Available under license:

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Version 2.1, February 1999

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

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

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

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

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work
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of these things:

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

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

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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1.91 rng-tools 5
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1.101 bash 2.05b

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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### 1.102 python 2.7.6

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.103 tcp-dump 3.1.0

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1.104 smartmontools 6.1

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