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

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

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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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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1.5 bzip2 1.0.8

1.6 dmidecode 3.5

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1.7 binutils 2.23.52

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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
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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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

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

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

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

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

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

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

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

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish
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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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3. You may opt to apply the terms of the ordinary GNU General Public
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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.

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

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

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

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

than the cost of performing this distribution.

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

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

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

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

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

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

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

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[This is the first released version of the library GPL. It is
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Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

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your libraries, too.

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anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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

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

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

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

concluded that weaker conditions might promote sharing better.

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

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

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

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

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

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

and installation of the library.

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

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

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this
function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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

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

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

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

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This option is useful when you wish to copy part of the code of
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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.

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

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(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
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more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
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with subsection 6b.

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Corresponding Source in
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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> icu4c-4.4.1

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1.10 xfsprogs 2.8.16

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Version 2.1, February 1999

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END OF TERMS AND CONDITIONS

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.

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

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

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:

```
 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 Library General
Public License instead of this License.

1.12 glibc 2.23

1.12.1 Available under license :

```
@c The GNU Lesser General Public License.
@center Version 2.1, February 1999

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies
```

of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence the
version number 2.1.]
@end display

@subheading Preamble

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freedom to share and change it. By contrast, the GNU General Public
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free software---to make sure the software is free for all its users.

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

 When we speak of free software, we are referring to freedom of use,
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it if you want it; that you can change the software and use pieces of it
in new free programs; and that you are informed that you can do these
things.

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

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

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

To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation
will not be affected by problems that might be
introduced by others.

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

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

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

We call this license the @dfn{Lesser} General Public License because it
does @emph{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.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0
@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License''). Each licensee is addressed as ``you''.

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

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

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

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

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verbatim copies of the Library's
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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.

@item
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:

@enumerate a
@item
The modified work must itself be a software library.

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

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

@item
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.)
@end enumerate

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.

@item
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.

@item
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.

@item
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.

@item
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:

@enumerate a
@item
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.)

@item
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.

@item
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.

@item
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.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

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.

@item
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:

@enumerate a
@item
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.

@item
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.

@end enumerate

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@item
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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

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

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

@smallexample
@var{one line to give the library's name and an idea of what it does.}
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You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
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USA.
@end
 smallexample

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

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

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

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

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Version 2.1, February 1999

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

Preamble

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freedom to share and change it. By contrast, the GNU General Public
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free software--to make sure the software is free for all its users.

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Free Software Foundation and other authors who
decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

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it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

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

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

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

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```
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#ifndef X86_BSD_NAT_H
#define X86_BSD_NAT_H

#include "x86-nat.h"

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

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

template<typename BaseTarget>
class x86bsd_nat_target
 : public x86_nat_target<BaseTarget>
{
 using base_class = x86_nat_target<BaseTarget>;
public:
#ifdef HAVE_PT_GETDBREGS
 void mourn_inferior () override
 {
   x86_cleanup_dregs ();
```

```
  base_class::mourn_inferior ();
 }
#endif /* HAVE_PT_GETDBREGS */
};

#endif /* x86-bsd-nat.h */
/* Native-dependent code for modern i386 BSD's.

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#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H

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

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

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

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

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

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this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

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

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

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain
that everyone understands that there is no warranty for this free
library. If the library is modified by someone else and passed on, we
want its recipients to know that what they have is not the original
version, so that any problems introduced by others will not reflect on
the original authors' reputations.

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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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.

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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.

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

Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the
Library, and explaining
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license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either

```
  version 2 of the License, or (at your option) any later version.

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

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

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

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

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!
BEGIN {
  FS="\"";
  print "/* ==> Do not modify this file!!  " \
 "-*- buffer-read-only: t -*- vi" \
 ":set ro:";
  print "   It is created automatically by copying.awk.";
  print "   Modify copying.awk instead.  <== */";
  print ""
  print "#include \"defs.h\""
  print "#include \"command.h\""
  print "#include \"gdbcmd.h\""
  print ""
  print "static void show_copying_command (const char *, int);"
  print ""
  print "static void show_warranty_command (const char *, int);"
  print ""
  print "static void";
  print "show_copying_command (const char *ignore, int from_tty)";
  print "{";
 }
NR == 1,/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/ {
  if ($0 ~ //)
    {
```

```
      printf "  printf_filtered (\"\\n\");\n";
    }
  else if ($0 !~ /^[  ]*15\. Disclaimer of Warranty\.[  ]*$/)
    {
      printf "  printf_filtered (\"";
      for (i = 1; i < NF; i++)
  printf "%s\\\"", $i;
      printf "%s\\n\");\n", $NF;
    }
 }
/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/ {

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

  print "     _(\"Conditions for redistributing copies of GDB.\"));";
  print "  add_info (\"warranty\", show_warranty_command,";
  print "     _(\"Various kinds of warranty you do not have.\"));";
  print "}";
 }
```

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

  Copyright (C) 2004-2019 Free Software Foundation, Inc.

  This file is part of GDB.

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  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; either version 3 of the License, or
  (at your option) any later version.

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  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License
  along with this program.  If not, see <http://www.gnu.org/licenses/>.  */

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

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

#include "bsd-kvm.h"
```

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

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

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

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

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

/* The libkvm target.  */

static
 const target_info bsd_kvm_target_info = {
 "kvm",
 N_("Kernel memory interface"),
 N_("Use a kernel virtual memory image as a target.\n\
Optionally specify the filename of a core dump.")
};

class bsd_kvm_target final : public process_stratum_target
{
public:
 bsd_kvm_target () = default;

 const target_info &info () const override
 { return bsd_kvm_target_info; }

 void close () override;

 void fetch_registers (struct regcache *, int) override;
 enum target_xfer_status xfer_partial (enum target_object object,
    const char *annex,
    gdb_byte *readbuf,
    const gdb_byte *writebuf,
    ULONGEST offset, ULONGEST len,
    ULONGEST *xfered_len) override;

 void files_info () override;
 bool thread_alive (ptid_t ptid) override;
```

```
 const char *pid_to_str (ptid_t) override;

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

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

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

 target_preopen (from_tty);

 if (arg)
   {
     char *temp;

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

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

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

 add_thread_silent (bsd_kvm_ptid);
 inferior_ptid = bsd_kvm_ptid;
```

```
 target_fetch_registers (get_current_regcache (), -1);

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

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

 inferior_ptid = null_ptid;
 discard_all_inferiors ();
}

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,
        gdb_byte *readbuf, const gdb_byte *writebuf)
{
 ssize_t nbytes = len;

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

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

 if (ret < 0)
   return TARGET_XFER_E_IO;
 else if (ret == 0)
```

```
  return TARGET_XFER_EOF;
 else
  {
    *xfered_len = (ULONGEST)
 ret;
    return TARGET_XFER_OK;
  }
    }

  default:
    return TARGET_XFER_E_IO;
  }
}

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

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

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

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

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

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

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

```
/* On dumping core, BSD kernels store the faulting context (PCB)

in the variable "dumppcb".  */
memset (nl, 0, sizeof nl);
nl[0].n_name = "_dumppcb";

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

if (nl[0].n_value != 0)
  {
    /* Found dumppcb.  If it contains a valid context, return
 immediately.  */
    if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
return;
  }

/* Traditional BSD kernels have a process proc0 that should always
   be present.  The address of proc0's PCB is stored in the variable
   "proc0paddr".  */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_proc0paddr";

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

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

    /* Found proc0paddr.  */
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
error (("%s"), kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
  }

#ifdef HAVE_STRUCT_THREAD_TD_PCB
 /* In FreeBSD kernels
 for 5.0-RELEASE and later, the PCB no longer
   lives in `struct proc' but in `struct thread'.  The `struct
   thread' for the initial thread for proc0 can be found in the
   variable "thread0".  */

 memset (nl, 0, sizeof nl);
```

```
 nl[0].n_name = "_thread0";

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

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

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

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

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


/* Kernel memory interface commands.  */
struct cmd_list_element *bsd_kvm_cmdlist;

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

#ifndef HAVE_STRUCT_THREAD_TD_PCB

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

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

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

 addr = parse_and_eval_address (arg);
```

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

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

 target_fetch_registers (get_current_regcache (), -1);

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

#endif

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

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

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

 target_fetch_registers (get_current_regcache (),
 -1);

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

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

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

```
}

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

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

 add_target (bsd_kvm_target_info, bsd_kvm_target_open);

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

#ifndef HAVE_STRUCT_THREAD_TD_PCB
 add_cmd ("proc", class_obscure, bsd_kvm_proc_cmd,
    _("Set current context from proc address"), &bsd_kvm_cmdlist);
#endif
  add_cmd ("pcb", class_obscure, bsd_kvm_pcb_cmd,
    /* i18n: PCB == "Process Control Block".  */
    _("Set current context from pcb address"), &bsd_kvm_cmdlist);

 /* Some notes on the ptid usage on this target.

    The pid field represents the kvm inferior instance.  Currently,
    we don't support multiple kvm inferiors, but we start at 1
    anyway.  The lwp field is set to != 0, in case the core wants to
    refer to the whole kvm inferior with ptid(1,0,0).

    If kvm is made to export running processes as gdb threads,
    the following form can be used:
    ptid (1, 1, 0) -> kvm inferior 1, in kernel
    ptid (1, 1, 1) -> kvm inferior 1, process 1
    ptid (1, 1, 2) -> kvm inferior 1, process 2
    ptid (1, 1, n) -> kvm inferior 1, process n  */

 bsd_kvm_ptid = ptid_t (1, 1, 0);
}
#! /usr/bin/env python

# Copyright (C) 2011-2019 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
```

```
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"""copyright.py

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

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

Always review the output of this script before committing it!
A useful command to review
 the output is:
  % filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""

import datetime
import os
import os.path
import subprocess


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

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

```
                or reldirname in BY_HAND):
                # Prune this directory from our search list.
                dirs.remove(dirname)
            for filename in files:
              relpath = "%s/%s" % (root, filename)
              if (filename in EXCLUDE_ALL_LIST
                or relpath in EXCLUDE_LIST
                or relpath in NOT_FSF_LIST
                or relpath in BY_HAND):
                # Ignore this file.
                pass
              else:
                result.append(relpath)
  return result


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

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

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

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

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

```
  for line in update_out:
     if line.endswith('\n'):

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


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

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

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

  fd = open(filename)

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


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

```
  update_list = get_update_list()
  update_files (update_list)

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

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

  if BY_HAND:
     print
     print "\033[31mREMINDER: The following files must be updated by hand." \
          "\033[0m"
     for filename in BY_HAND:
        print "  ", filename

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

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

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

```
 files named COPYING to be left untouched.

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

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

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

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
  "gdb/exc_request.defs",
  "gdb/gdbtk",
  "gdb/testsuite/gdb.gdbtk/",
  "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
  "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
  "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
  "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
  "sim/arm/armopts.h",
 "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
  "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
  "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
  "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
  "sim/arm/arminit.c",
  "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
  "sim/common/cgen-accfp.c",
  "sim/mips/m16run.c", "sim/mips/sim-main.c",
  "sim/moxie/moxie-gdb.dts",
  # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
  "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
  "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
  "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
  "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
  "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
  "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
```

"sim/ppc/hw_phb.c", "sim/ppc/hw_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_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/idecode_fields.h",
"sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h",
"sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
main()
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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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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
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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:

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the

Library, and explaining
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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Version 3, 29 June 2007

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TERMS AND CONDITIONS

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium

customarily used for software interchange.

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

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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"Installation Information" for a User Product means any methods, procedures, authorization
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If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in
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Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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1.15 netkit-tftp 0.17

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* From: @(#)tftp.h 8.1 (Berkeley) 6/2/93
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* (Fixed for netkit to have well-defined field sizes)
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*
 /netkit-tftp-0-17-orig-2-tar-gz/netkit-tftp-0.17/tftp/main.c
* /netkit-tftp-0-17-orig-2-tar-gz/netkit-tftp-0.17/tftpd/tftpd.c

1.16 libnet 1.2

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Version 3, 29 June 2007

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1.24 sg3-utils 1.35

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1.30 xmlrpc-c 1.06.38

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1.31 pexpect 4.8.0

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Mathieu Desnoyers
May 13th, 2009

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

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

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

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

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

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

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

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

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

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1.38 xlrd 2.0.1

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

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Written by: Philip Hazel
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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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 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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[dialyzer]

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[hipe]

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[edoc, syntax_tools]

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1.42 libedit 2.1

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1.43 gmp 4.3.4

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it
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Section 6 states terms for distribution of such executables.

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if the work is a derivative of the Library, you may
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@item
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@enumerate a
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with the Library, with the complete machine-readable ``work that
uses the Library'', as object code and/or source code, so that the
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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

@item
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*/
path: "tensorflow.errors.PermissionDeniedError"
tf_class {
 is_instance: "<class \'tensorflow.python.framework.errors_impl.PermissionDeniedError\'>"
 is_instance: "<class \'tensorflow.python.framework.errors_impl.OpError\'>"
 is_instance: "<type \'exceptions.Exception\'>"
 member {
  name: "args"
  mtype: "<type \'getset_descriptor\'>"
 }
 member {
  name: "error_code"
  mtype: "<type \'property\'>"
 }
 member {
  name: "experimental_payloads"
  mtype: "<type \'property\'>"
 }
 member {
  name: "message"
  mtype: "<type \'property\'>"
 }
 member {
  name: "node_def"
  mtype: "<type \'property\'>"
 }
 member {
  name: "op"
  mtype: "<type \'property\'>"
 }
 member_method {
```

```
  name: "__init__"
  argspec: "args=[\'self\', \'node_def\', \'op\', \'message\'], varargs=args, keywords=None, defaults=None"
 }
}
```

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./test/sparseLM.cpp
./test/upperbidiagonalization.cpp
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./test/geo_transformations.cpp
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./test/eigensolver_selfadjoint.cpp
./test/inverse.cpp
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./test/triangular.cpp
./test/product_mmtr.cpp
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1.48 tdb 1.47.0

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1.50 ncurses 6.4

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.11 2022/01/01 11:47:50 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

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

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Files: progs/tset.c ncurses/tinfo/read_termcap.c
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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/Ada95.html

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

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-- vile: txtmode file-encoding=utf-8

1.51 setserial 2.17

1.51.1 Available under license :

No license file was found, but licenses were detected in source scan.

.\" May be distributed under the GNU General Public License

Found in path(s):
* /matwey-setserial-2-17-0-ge4ab0db-1-tar-gz/matwey-setserial-e4ab0db/setserial.8.in
* /matwey-setserial-2-17-0-ge4ab0db-1-tar-gz/matwey-setserial-e4ab0db/setserial.8
No license file was found, but licenses were detected in source scan.

/*
* version.h --- Defines the version number of setserial
*
* Copyright 1995, 1996, 1997, 1998 by Theodore Ts'o. This file may be
* redistributed under the GNU Public License.
*/

Found in path(s):
* /matwey-setserial-2-17-0-ge4ab0db-1-tar-gz/matwey-setserial-e4ab0db/version.h
No license file was found, but licenses were detected in source scan.

```
/*
* include/linux/serial.h
*
* Copyright (C) 1992 by Theodore Ts'o.
*
* Redistribution of this file is permitted under the terms of the GNU
* Public License (GPL)
*/
```

Found in path(s):
* /matwey-setserial-2-17-0-ge4ab0db-1-tar-gz/matwey-setserial-e4ab0db/linux/serial.h

1.52 sysv-init 2.78

1.52.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
* utmpdump Simple program to dump UTMP and WTMP files in
*  raw format, so they can be examined.
*
* Author: Miquel van Smoorenburg, <miquels@cistron.nl>
*             Danek Duvall <duvall@alumni.princeton.edu>
* Date: 20-Dec-1998
* Version: 2.0
*
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*/
```

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/utmpdump.c
No license file was found, but licenses were detected in source scan.

```
--- sysvinit-2.78/src/last.c.orig Sun May 27 18:51:14 2001
+++ sysvinit-2.78/src/last.c Wed Jun 13 22:04:25 2001
@@ -15,6 +15,10 @@
 *  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.
+ *
+ * Modified: 29 May 2001 Chris Wolf:
+ *  Indicate entries without logout records, as gone, instead
+ *  of logged in.
 */

#include <sys/types.h>
@@ -60,6 +64,7 @@
#define R_NORMAL 3 /* Normal */
#define R_NOW  4 /* Still logged in */
#define R_REBOOT 5 /* Reboot record. */
+#define R_PHANTOM 6 /* gone without logout record. */

/* Global variables */
int maxrecs = 0; /* Maximum number of records to list. */
@@ -389,6 +394,11 @@
   sprintf(logouttime, "  still");
   sprintf(length, "logged in");
   break;
+  case R_PHANTOM:
+   length[0] = 0;
+   sprintf(logouttime, "  gone");
+   sprintf(length,
 "- no logout");
+   break;
  case R_REBOOT:
   logouttime[0] = 0;      /* Print machine uptime */
   break;
@@ -690,21 +701,28 @@
       R_NORMAL);
      c = 1;
     }
+
     if (p->next) p->next->prev = p->prev;
     if (p->prev)
      p->prev->next = p->next;
     else
     utmplist = p->next;
+
     free(p);
    }
   }
  /*
-   * Not found? Then crashed, down
-   * or still logged in
+   * Not found? Then crashed, down, still logged in,
+   * or just missing logout record.
```

```
    */
   if (c == 0) {
-    if (lastboot == 0)
-     quit = list(&ut, time(NULL), R_NOW);
+    if (lastboot == 0) {
+     /* check for process existence to see if really still logged in */
+     if (kill(ut.ut_pid, 0) && errno == ESRCH)
+      quit = list(&ut, time(NULL), R_PHANTOM);
+     else
+      quit = list(&ut, time(NULL), R_NOW);
+    }
    else
     quit = list(&ut, lastboot, whydown);
   }
```

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78-lastgone.patch
No license file was found, but licenses were detected in source scan.

```
/*
* runlevel Prints out the previous and the current runlevel.
*
* Version: @(#)runlevel  1.20  16-Apr-1997  MvS
*
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*/
```

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/runlevel.c
No license file was found, but licenses were detected in source scan.

```
/*
* powerd Monitor the DCD line of a serial port connected to
*  an UPS. If the power goes down, notify init.
*  If the power comes up again, notify init again.
*  As long as the power is OK, the DCD line should be
*  "HIGH". When the power fails, DCD should go "LOW".
*  Powerd keeps DTR high so that you can connect
*  DCD and DTR with a resistor of 10 Kilo Ohm and let the
*  UPS or some relais pull the DCD line to ground.
*  You also need to connect DTR and DSR together. This
```

```
*  way, powerd can check now and then if DSR is high
*  so it knows the UPS is connected!!
*
* Usage: powerd /dev/cua4 (or any other serial device).
*
* Author: Miquel van Smoorenburg, <miquels@drinkel.cistron.nl>.
*
* Version: 1.31,  29-Feb-1996.
*
*  This program was originally written for my employer,
*   ** Cistron Electronics **
*  who has given kind permission to release this program
*  for general puppose.
*
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*/
```

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/obsolete/powerd.c
No license file was found, but licenses were detected in source scan.

```
/*
* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
* public domain.
*/
```

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/contrib/start-stop-daemon.c
No license file was found, but licenses were detected in source scan.

```
/*
* mesg.c The "mesg" utility. Gives / restrict access to
*  your terminal by others.
*
* Usage: mesg [y|n].
*  Without arguments prints out the current settings.
*
```

```
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*/
```

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No license file was found, but licenses were detected in source scan.

```
/*
* Halt  Stop the system running.
*  It re-enables CTRL-ALT-DEL, so that a hard reboot can
*  be done. If called as reboot, it will reboot the system.
*
*  If the system is not in runlevel 0 or 6, halt will just
*  execute a "shutdown -h" to halt the system, and reboot will
*  execute an "shutdown -r". This is for compatibility with
*  sysvinit 2.4.
*
* Usage: halt [-n] [-w] [-d] [-f] [-p]
*  -n: don't sync before halting the system
*  -w: only write a wtmp reboot record and exit.
*  -d: don't write a wtmp record.
*  -f: force halt/reboot, don't call shutdown.
*  -p: power down the system (if possible, otherwise halt)
*
*  Reboot and halt are both this program. Reboot
*  is just a link to halt. Invoking the program
*  as poweroff implies the -p option.
*
* Author: Miquel van Smoorenburg, miquels@cistron.nl
*
* Version: 2.74,  24-Feb-1998
*
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*/
```

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/halt.c
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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.

Init is Copyright (C) Miquel van Smoorenburg

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Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/debian/README
No license file was found, but licenses were detected in source scan.

README for the System V style init, version 2.78

init, shutdown, halt, reboot, wall, last, mesg, runlevel,
killall5, pidof, sulogin.

All programs, files and scripts in this package are covered by
the Gnu Public License, and copyrighted by me.

If you are not using Debian and the debianzed package,
you will have to install the new init by hand. You should
be able to drop the binaries into a Slackware 3.x or Redhat 4.x
system, I think.

Here is a list of preferred directories to install the progs & manpages:

wall.1, last.1, mesg.1 /usr/man/man1
inittab.5, initscript.5 /usr/man/man5
init.8, halt.8, reboot.8,
shutdown.8, powerd.8,
killall5.8, pidof.8,
runlevel.8, sulogin.8 /usr/man/man8

init /sbin/init
inittab /etc/inittab
initscript.sample /etc/initscript.sample
telinit a link (with ln(1)) to init, either
  in /bin or in /sbin.
halt /sbin/halt
reboot a link to /sbin/halt
 in the same directory
killall5 /sbin/killall5
pidof a link to /sbin/killall5 in the same directory.
runlevel /sbin/runlevel
shutdown /sbin/shutdown.
wall /usr/bin/wall
mesg /usr/bin/mesg
last /usr/bin/last
sulogin /sbin/sulogin
bootlogd /sbin/bootlogd
utmpdump don't install, it's just a debug thingy.

If you already _have_ a "wall" in /bin (the SLS release has, for example)
do _not_ install this wall. Chances are that the wall you are already
using is linked to /bin/write. Either first _remove_ /bin/wall before
installing the new one, or don't install the new one at all.

You might want to create a file called "/etc/shutdown.allow". Read the
manual page on shutdown to find out more about this.

Running from a read-only file system (CDROM?):
o All communication to init goes through the FIFO /dev/initctl.
There should be no problem using a read-only root file system
IF you use a Linux kernel > 1.3.66. Older kernels don't
allow
writing to a FIFO on a read-only file system.

Miquel van Smoorenburg <miquels@cistron.nl>

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/doc/Install
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```
/*
* Init  A System-V Init Clone.
*
* Usage: /sbin/init
*       init [0123456SsQqAaBbCc]
*    telinit [0123456SsQqAaBbCc]
*
* Version: @(#)init.c  2.78  11-Feb-2000  miquels@cistron.nl
*
*  This file is part of the sysvinit suite,
*  Copyright 1991-2000 Miquel van Smoorenburg.
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*  2 of the License, or (at your option) any later version.
*
* Modified: 21 Feb 1998, Al Viro:
*  'U' flag added to telinit. It forces init to re-exec itself
*  (passing its state through exec, certainly).
*  May be useful for smoother (heh) upgrades.
*  24 Feb 1998, AV:
*  did_boot made global and added to state - thanks, Miquel.
*  Yet another file descriptors leak - close state pipe if
*  re_exec fails.
*/
```

Found in path(s):
*
/SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/init.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* shutdown.c Shut the system down.
*
* Usage: shutdown [-krhfnc] time [warning message]
*    -k: don't really shutdown, only warn.
*    -r: reboot after shutdown.
*    -h: halt after shutdown.
*    -f: do a 'fast' reboot (skip fsck).
*    -F: Force fsck on reboot.
*    -n: do not go through init but do it ourselves.
*    -c: cancel an already running shutdown.
*    -t secs: delay between SIGTERM and SIGKILL for init.
*
* Author: Miquel van Smoorenburg, miquels@cistron.nl
*
* Version: @(#)shutdown  2.78  13-Nov-1999  miquels@cistron.nl
*
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*/
```

Found in path(s):

*

/SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/shutdown.c

No license file was found, but licenses were detected in source scan.

```
/*
* last.c Re-implementation of the 'last' command, this time
*  for Linux. Yes I know there is BSD last, but I
*  just felt like writing this. No thanks :-).
*  Also, this version gives lots more info (especially with -x)
*
* Author: Miquel van Smoorenburg, miquels@cistron.nl
*
* Version: @(#)last  2.78  24-Nov-1999  miquels@cistron.nl
*
*  This file is part of the sysvinit suite,
*  Copyright 1991-1999 Miquel van Smoorenburg.
*
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*  modify it under the terms of the GNU General Public License
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*  2 of the License, or (at your option) any later version.
```

```
*/
```

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/last.c
No license file was found, but licenses were detected in source scan.

```
/*
* kilall5.c Kill all processes except processes that have the
*  same session id, so that the shell that called us
*  won't be killed. Typically used in shutdown scripts.
*
* pidof.c Tries to get the pid of the process[es] named.
*
* Version: 2.30 03-Jul-1996 rhm MvS
*
* Usage: killall5 [-][signal]
*  pidof [-s] [-o omitpid [-o omitpid]] program [program..]
*
* Authors: Miquel van Smoorenburg, miquels@drinkel.cistron.nl
*
*  Riku Meskanen, <mesrik@jyu.fi>
*  - return all running pids of given program name
*  - single shot '-s' option for backwards combatibility
*  - omit pid '-o' option and %PPID (parent pid metavariable)
*  - syslog() only if not a connected to controlling terminal
*  - swapped out programs pids are caught now
*
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*  Copyright 1991-1996 Miquel van Smoorenburg.
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*  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.
*/
```

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/killall5.c
No license file was found, but licenses were detected in source scan.

```
/*
* paths.h Paths of files that init and related utilities need.
*
* Version: @(#) paths.h 1.71 28-Dec-1995
*
```

* Author: Miquel van Smoorenburg, <miquels@cistron.nl>
*
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* Copyright 1991-1997 Miquel van Smoorenburg.
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* 2 of the License, or (at your option) any later version.
*/

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/paths.h
No license file was found, but licenses were detected in source scan.

Start-stop-daemon is the program that is used by the DEBIAN style init
scripts to start and stop services. This program is part of the "dpkg"
package by Ian Jackson. However there is also a seperate C version (the
original is in perl) available written by Marek Michalkiewicz. I'm including
it for your convinience.

Note that the latest debian dpkg packages (4.0.18 and later) contain
a much improved update-rc.d. This code is almost a year old.

The original announcement follows:

From: Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>
Message-Id: <199606060324.FAA19493@i17linuxb.ists.pwr.wroc.pl>
Subject: Fast start-stop-daemon in C
To: debian-devel@lists.debian.org
Date: Thu, 6 Jun 1996 05:24:18 +0200 (MET DST)

Some time ago I wrote a faster C replacement for the start-stop-daemon
perl script. I use it for some time now (the most recent changes were
just a nicer help screen; the code is quite stable).

This
 makes the system boot faster (especially on low end machines),
and important system startup scripts no longer depend on another big
package (perl). Maybe in the future we can get to the point where
a minimal system will work without perl installed at all (packages
which need it in {pre,post}{inst,rm} scripts would depend on perl).

The only problem known so far to me is that I have to reinstall this
program after every dpkg upgrade which overwrites it with that nice
slooow perl script :-).

Just compile this program and drop the binary in /usr/sbin instead
of the original /usr/sbin/start-stop-daemon perl script (make a copy
of it first, just in case). See below for source code. I placed it
in the public domain, but if it has to be GPL-ed to be included in
dpkg, just tell me. Including it in dpkg would close Bug#1670.

I am posting it here so that it can be tested by more people than
just me. Bugs are unlikely though.

Have fun,

Marek

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/contrib/start-stop-daemon.README
No license file was found, but licenses were detected in source scan.

```
/*
* utmpdump Simple program to dump UTMP and WTMP files in
*  raw format, so they can be examined.
*
* Version: @(#)utmpdump.c  13-Aug-1996  1.00  miquels@cistron.nl
*
*  This file is part of the sysvinit suite,
*  Copyright 1991-1996 Miquel van Smoorenburg.
*
*  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.
*/
```

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/obsolete/utmpdump.c.OLD
No license file was found, but licenses were detected in source scan.

```
--- sysvinit-2.77/src/md5.c.be Fri Aug 20 14:05:19 1999
+++ sysvinit-2.77/src/md5.c Sat Jul 24 02:13:39 1999
@@ -0,0 +1,256 @@
+/*
+ * $Id: md5.c,v 1.1.1.2 1999/07/24 00:13:39 gafton Exp $
+ *
+ * This code implements the MD5 message-digest algorithm.
+ * The algorithm is due to Ron Rivest.  This code was
+ * written by Colin Plumb in 1993, no copyright is claimed.
```

```
+ * This code is in the public domain; do with it what you wish.
+ *
+ * Equivalent code is available from RSA Data Security, Inc.
+ * This code has been tested against that, and is equivalent,
+ * except that you don't need to include two pages of legalese
+ * with every copy.
+ *
+ * To compute the message digest of a chunk of bytes, declare an
+ * MD5Context structure, pass it to MD5Init, call MD5Update as
+ * needed on buffers full of bytes, and then call MD5Final, which
+ * will fill a supplied 16-byte array with the digest.
+ *
+ */
+
+#include <string.h>
+#include
 "md5.h"
+
+#ifndef HIGHFIRST
+#define byteReverse(buf, len) /* Nothing */
+#else
+static void byteReverse(unsigned char *buf, unsigned longs);
+
+#ifndef ASM_MD5
+/*
+ * Note: this code is harmless on little-endian machines.
+ */
+static void byteReverse(unsigned char *buf, unsigned longs)
+{
+ uint32 t;
+ do {
+  t = (uint32) ((unsigned) buf[3] << 8 | buf[2]) << 16 |
+      ((unsigned) buf[1] << 8 | buf[0]);
+  *(uint32 *) buf = t;
+  buf += 4;
+ } while (--longs);
+}
+#endif
+#endif
+
+/*
+ * Start MD5 accumulation.  Set bit count to 0 and buffer to mysterious
+ * initialization constants.
+ */
+void MD5Name(MD5Init)(struct MD5Context *ctx)
+{
+ ctx->buf[0] = 0x67452301U;
+ ctx->buf[1] = 0xefcdab89U;
```

```
+ ctx->buf[2] = 0x98badcfeU;
+ ctx->buf[3] = 0x10325476U;
+
+ ctx->bits[0] = 0;
+ ctx->bits[1] = 0;
+}
+
+/*
+ * Update context to reflect the concatenation of another buffer full
+ * of bytes.
+ */
+void MD5Name(MD5Update)(struct MD5Context *ctx, unsigned const char *buf,
 unsigned len)
+{
+ uint32 t;
+
+ /* Update bitcount */
+
+ t = ctx->bits[0];
+ if ((ctx->bits[0] = t + ((uint32) len << 3)) < t)
+  ctx->bits[1]++; /* Carry from low to high */
+ ctx->bits[1] += len >> 29;
+
+ t = (t >> 3) & 0x3f; /* Bytes already in shsInfo->data */
+
+ /* Handle any leading odd-sized chunks */
+
+ if (t) {
+  unsigned char *p = (unsigned char *) ctx->in + t;
+
+  t = 64 - t;
+  if (len < t) {
+   memcpy(p, buf, len);
+   return;
+  }
+  memcpy(p, buf, t);
+  byteReverse(ctx->in, 16);
+  MD5Name(MD5Transform)(ctx->buf, (uint32 *) ctx->in);
+  buf += t;
+  len -= t;
+ }
+ /* Process data in 64-byte chunks */
+
+ while (len >= 64) {
+  memcpy(ctx->in, buf, 64);
+  byteReverse(ctx->in, 16);
+  MD5Name(MD5Transform)(ctx->buf, (uint32 *) ctx->in);
+  buf += 64;
```

```
+  len -= 64;
+ }
+
+ /* Handle any remaining bytes of data. */
+
+ memcpy(ctx->in, buf, len);
+}
+
+/*
+ * Final wrapup - pad to 64-byte boundary with the bit pattern
+ * 1 0* (64-bit count of bits processed, MSB-first)
+
 */
+void MD5Name(MD5Final)(unsigned char digest[16], struct MD5Context *ctx)
+{
+ unsigned count;
+ unsigned char *p;
+
+ /* Compute number of bytes mod 64 */
+ count = (ctx->bits[0] >> 3) & 0x3F;
+
+ /* Set the first char of padding to 0x80.  This is safe since there is
+    always at least one byte free */
+ p = ctx->in + count;
+ *p++ = 0x80;
+
+ /* Bytes of padding needed to make 64 bytes */
+ count = 64 - 1 - count;
+
+ /* Pad out to 56 mod 64 */
+ if (count < 8) {
+  /* Two lots of padding:  Pad the first block to 64 bytes */
+  memset(p, 0, count);
+  byteReverse(ctx->in, 16);
+  MD5Name(MD5Transform)(ctx->buf, (uint32 *) ctx->in);
+
+  /* Now fill the next block with 56 bytes */
+  memset(ctx->in, 0, 56);
+ } else {
+  /* Pad block to 56 bytes */
+  memset(p, 0, count - 8);
+ }
+ byteReverse(ctx->in, 14);
+
+ /* Append length in bits and transform */
+ ((uint32 *) ctx->in)[14] = ctx->bits[0];
+ ((uint32 *) ctx->in)[15] = ctx->bits[1];
+
```

```
+ MD5Name(MD5Transform)(ctx->buf,
 (uint32 *) ctx->in);
+ byteReverse((unsigned char *) ctx->buf, 4);
+ memcpy(digest, ctx->buf, 16);
+ memset(ctx, 0, sizeof(ctx)); /* In case it's sensitive */
+}
+
+#ifndef ASM_MD5
+
+/* The four core functions - F1 is optimized somewhat */
+
+/* #define F1(x, y, z) (x & y | ~x & z) */
+#define F1(x, y, z) (z ^ (x & (y ^ z)))
+#define F2(x, y, z) F1(z, x, y)
+#define F3(x, y, z) (x ^ y ^ z)
+#define F4(x, y, z) (y ^ (x | ~z))
+
+/* This is the central step in the MD5 algorithm. */
+#define MD5STEP(f, w, x, y, z, data, s) \
+ ( w += f(x, y, z) + data,  w = w<<s | w>>(32-s),  w += x )
+
+/*
+ * The core of the MD5 algorithm, this alters an existing MD5 hash to
+ * reflect the addition of 16 longwords of new data.  MD5Update blocks
+ * the data and converts bytes into longwords for this routine.
+ */
+void MD5Name(MD5Transform)(uint32 buf[4], uint32 const in[16])
+{
+ register uint32 a, b, c, d;
+
+ a = buf[0];
+ b = buf[1];
+ c = buf[2];
+ d = buf[3];
+
+ MD5STEP(F1, a, b, c, d, in[0]
  + 0xd76aa478U, 7);
+ MD5STEP(F1, d, a, b, c, in[1] + 0xe8c7b756U, 12);
+ MD5STEP(F1, c, d, a, b, in[2] + 0x242070dbU, 17);
+ MD5STEP(F1, b, c, d, a, in[3] + 0xc1bdceeeU, 22);
+ MD5STEP(F1, a, b, c, d, in[4] + 0xf57c0fafU, 7);
+ MD5STEP(F1, d, a, b, c, in[5] + 0x4787c62aU, 12);
+ MD5STEP(F1, c, d, a, b, in[6] + 0xa8304613U, 17);
+ MD5STEP(F1, b, c, d, a, in[7] + 0xfd469501U, 22);
+ MD5STEP(F1, a, b, c, d, in[8] + 0x698098d8U, 7);
+ MD5STEP(F1, d, a, b, c, in[9] + 0x8b44f7afU, 12);
+ MD5STEP(F1, c, d, a, b, in[10] + 0xffff5bb1U, 17);
+ MD5STEP(F1, b, c, d, a, in[11] + 0x895cd7beU, 22);
```

```
+ MD5STEP(F1, a, b, c, d, in[12] + 0x6b901122U, 7);
+ MD5STEP(F1, d, a, b, c, in[13] + 0xfd987193U, 12);
+ MD5STEP(F1, c, d, a, b, in[14] + 0xa679438eU, 17);
+ MD5STEP(F1, b, c, d, a, in[15] + 0x49b40821U, 22);
+
+ MD5STEP(F2, a, b, c, d, in[1] + 0xf61e2562U, 5);
+ MD5STEP(F2, d, a, b, c, in[6] + 0xc040b340U, 9);
+ MD5STEP(F2, c, d, a, b, in[11] + 0x265e5a51U, 14);
+ MD5STEP(F2, b, c, d, a, in[0] + 0xe9b6c7aaU,
 20);
+ MD5STEP(F2, a, b, c, d, in[5] + 0xd62f105dU, 5);
+ MD5STEP(F2, d, a, b, c, in[10] + 0x02441453U, 9);
+ MD5STEP(F2, c, d, a, b, in[15] + 0xd8a1e681U, 14);
+ MD5STEP(F2, b, c, d, a, in[4] + 0xe7d3fbc8U, 20);
+ MD5STEP(F2, a, b, c, d, in[9] + 0x21e1cde6U, 5);
+ MD5STEP(F2, d, a, b, c, in[14] + 0xc33707d6U, 9);
+ MD5STEP(F2, c, d, a, b, in[3] + 0xf4d50d87U, 14);
+ MD5STEP(F2, b, c, d, a, in[8] + 0x455a14edU, 20);
+ MD5STEP(F2, a, b, c, d, in[13] + 0xa9e3e905U, 5);
+ MD5STEP(F2, d, a, b, c, in[2] + 0xfcefa3f8U, 9);
+ MD5STEP(F2, c, d, a, b, in[7] + 0x676f02d9U, 14);
+ MD5STEP(F2, b, c, d, a, in[12] + 0x8d2a4c8aU, 20);
+
+ MD5STEP(F3, a, b, c, d, in[5] + 0xfffa3942U, 4);
+ MD5STEP(F3, d, a, b, c, in[8] + 0x8771f681U, 11);
+ MD5STEP(F3, c, d, a, b, in[11] + 0x6d9d6122U, 16);
+ MD5STEP(F3, b, c, d, a, in[14] + 0xfde5380cU, 23);
+ MD5STEP(F3, a, b, c, d, in[1] + 0xa4beea44U, 4);
+ MD5STEP(F3, d, a, b, c, in[4] + 0x4bdecfa9U, 11);
+ MD5STEP(F3, c, d, a, b, in[7] + 0xf6bb4b60U, 16);
+ MD5STEP(F3,
 b, c, d, a, in[10] + 0xbebfbc70U, 23);
+ MD5STEP(F3, a, b, c, d, in[13] + 0x289b7ec6U, 4);
+ MD5STEP(F3, d, a, b, c, in[0] + 0xeaa127faU, 11);
+ MD5STEP(F3, c, d, a, b, in[3] + 0xd4ef3085U, 16);
+ MD5STEP(F3, b, c, d, a, in[6] + 0x04881d05U, 23);
+ MD5STEP(F3, a, b, c, d, in[9] + 0xd9d4d039U, 4);
+ MD5STEP(F3, d, a, b, c, in[12] + 0xe6db99e5U, 11);
+ MD5STEP(F3, c, d, a, b, in[15] + 0x1fa27cf8U, 16);
+ MD5STEP(F3, b, c, d, a, in[2] + 0xc4ac5665U, 23);
+
+ MD5STEP(F4, a, b, c, d, in[0] + 0xf4292244U, 6);
+ MD5STEP(F4, d, a, b, c, in[7] + 0x432aff97U, 10);
+ MD5STEP(F4, c, d, a, b, in[14] + 0xab9423a7U, 15);
+ MD5STEP(F4, b, c, d, a, in[5] + 0xfc93a039U, 21);
+ MD5STEP(F4, a, b, c, d, in[12] + 0x655b59c3U, 6);
+ MD5STEP(F4, d, a, b, c, in[3] + 0x8f0ccc92U, 10);
+ MD5STEP(F4, c, d, a, b, in[10] + 0xffeff47dU, 15);
```

```
+ MD5STEP(F4, b, c, d, a, in[1] + 0x85845dd1U, 21);
+ MD5STEP(F4, a, b, c, d, in[8] + 0x6fa87e4fU, 6);
+ MD5STEP(F4, d, a, b, c, in[15] + 0xfe2ce6e0U, 10);
+ MD5STEP(F4,
 c, d, a, b, in[6] + 0xa3014314U, 15);
+ MD5STEP(F4, b, c, d, a, in[13] + 0x4e0811a1U, 21);
+ MD5STEP(F4, a, b, c, d, in[4] + 0xf7537e82U, 6);
+ MD5STEP(F4, d, a, b, c, in[11] + 0xbd3af235U, 10);
+ MD5STEP(F4, c, d, a, b, in[2] + 0x2ad7d2bbU, 15);
+ MD5STEP(F4, b, c, d, a, in[9] + 0xeb86d391U, 21);
+
+ buf[0] += a;
+ buf[1] += b;
+ buf[2] += c;
+ buf[3] += d;
+}
+
+#endif
--- sysvinit-2.77/src/md5.h.be Fri Aug 20 14:05:22 1999
+++ sysvinit-2.77/src/md5.h Fri Aug 20 13:54:09 1999
@@ -0,0 +1,40 @@
+#ifndef MD5_H
+#define MD5_H
+
+#include <features.h>
+#if defined(__GLIBC__) && __GLIBC__ > 1
+# include <stdint.h>
+typedef uint32_t uint32;
+#else
+# ifdef __alpha
+typedef unsigned int uint32;
+# else
+typedef unsigned long uint32;
+# endif
+#endif
+
+struct MD5Context {
+    uint32 buf[4];
+    uint32 bits[2];
+    unsigned char in[64];
+};
+
+void GoodMD5Init(struct MD5Context *);
+void GoodMD5Update(struct MD5Context *, unsigned const char *, unsigned);
+void GoodMD5Final(unsigned
+ char digest[16], struct MD5Context *);
+void GoodMD5Transform(uint32 buf[4], uint32 const in[16]);
+void BrokenMD5Init(struct MD5Context *);
```

```
+void BrokenMD5Update(struct MD5Context *, unsigned const char *, unsigned);
+void BrokenMD5Final(unsigned char digest[16], struct MD5Context *);
+void BrokenMD5Transform(uint32 buf[4], uint32 const in[16]);
+
+char *Goodcrypt_md5(const char *pw, const char *salt);
+char *Brokencrypt_md5(const char *pw, const char *salt);
+
+/*
+* This is needed to make RSAREF happy on some MS-DOS compilers.
+*/
+
+typedef struct MD5Context MD5_CTX;
+
+#endif /* MD5_H */
--- sysvinit-2.77/src/md5_crypt.c.be Fri Aug 20 14:05:25 1999
+++ sysvinit-2.77/src/md5_crypt.c Sat Jul 24 02:13:39 1999
@@ -0,0 +1,149 @@
+/*
+ * $Id: md5_crypt.c,v 1.1.1.1 1999/07/24 00:13:39 gafton Exp $
+ *
+ * ----------------------------------------------------------------------------
+ * "THE BEER-WARE LICENSE" (Revision 42):
+ * <phk@login.dknet.dk> wrote this file.  As long as you retain
 this notice you
+ * can do whatever you want with this stuff. If we meet some day, and you think
+ * this stuff is worth it, you can buy me a beer in return.   Poul-Henning Kamp
+ * ----------------------------------------------------------------------------
+ *
+ * Origin: Id: crypt.c,v 1.3 1995/05/30 05:42:22 rgrimes Exp
+ *
+ */
+
+#include <string.h>
+#include "md5.h"
+
+static unsigned char itoa64[] = /* 0 ... 63 => ascii - 64 */
+"./0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz";
+
+static void to64(char *s, unsigned long v, int n)
+{
+ while (--n >= 0) {
+  *s++ = itoa64[v & 0x3f];
+  v >>= 6;
+ }
+}
+
+/*
+ * UNIX password
```

```
+ *
+ * Use MD5 for what it is best at...
+ */
+
+char *MD5Name(crypt_md5)(const char *pw, const char *salt)
+{
+ const char *magic = "$1$";
+ /* This string is magic for this algorithm.  Having
+  * it this way, we can get get better later on */
+ static char passwd[120], *p;
+ static const char *sp, *ep;
+ unsigned char final[16];
+ int
 sl, pl, i, j;
+ MD5_CTX ctx, ctx1;
+ unsigned long l;
+
+ /* Refine the Salt first */
+ sp = salt;
+
+ /* If it starts with the magic string, then skip that */
+ if (!strncmp(sp, magic, strlen(magic)))
+  sp += strlen(magic);
+
+ /* It stops at the first '$', max 8 chars */
+ for (ep = sp; *ep && *ep != '$' && ep < (sp + 8); ep++)
+  continue;
+
+ /* get the length of the true salt */
+ sl = ep - sp;
+
+ MD5Name(MD5Init)(&ctx);
+
+ /* The password first, since that is what is most unknown */
+ MD5Name(MD5Update)(&ctx,(unsigned const char *)pw,strlen(pw));
+
+ /* Then our magic string */
+ MD5Name(MD5Update)(&ctx,(unsigned const char *)magic,strlen(magic));
+
+ /* Then the raw salt */
+ MD5Name(MD5Update)(&ctx,(unsigned const char *)sp,sl);
+
+ /* Then just as many characters of the MD5(pw,salt,pw) */
+ MD5Name(MD5Init)(&ctx1);
+ MD5Name(MD5Update)(&ctx1,(unsigned const char *)pw,strlen(pw));
+ MD5Name(MD5Update)(&ctx1,(unsigned const char *)sp,sl);
+ MD5Name(MD5Update)(&ctx1,(unsigned
```

```
 const char *)pw,strlen(pw));
+ MD5Name(MD5Final)(final,&ctx1);
+ for (pl = strlen(pw); pl > 0; pl -= 16)
+  MD5Name(MD5Update)(&ctx,(unsigned const char *)final,pl>16 ? 16 : pl);
+
+ /* Don't leave anything around in vm they could use. */
+ memset(final, 0, sizeof final);
+
+ /* Then something really weird... */
+ for (j = 0, i = strlen(pw); i; i >>= 1)
+  if (i & 1)
+   MD5Name(MD5Update)(&ctx, (unsigned const char *)final+j, 1);
+  else
+   MD5Name(MD5Update)(&ctx, (unsigned const char *)pw+j, 1);
+
+ /* Now make the output string */
+ strcpy(passwd, magic);
+ strncat(passwd, sp, sl);
+ strcat(passwd, "$");
+
+ MD5Name(MD5Final)(final,&ctx);
+
+ /*
+  * and now, just to make sure things don't run too fast
+  * On a 60 Mhz Pentium this takes 34 msec, so you would
+  * need 30 seconds to build a 1000 entry dictionary...
+  */
+ for (i = 0; i < 1000; i++) {
+  MD5Name(MD5Init)(&ctx1);
+  if (i & 1)
+   MD5Name(MD5Update)(&ctx1,(unsigned const char *)pw,strlen(pw));
+  else
+   MD5Name(MD5Update)(&ctx1,(unsigned
 const char *)final,16);
+
+  if (i % 3)
+   MD5Name(MD5Update)(&ctx1,(unsigned const char *)sp,sl);
+
+  if (i % 7)
+   MD5Name(MD5Update)(&ctx1,(unsigned const char *)pw,strlen(pw));
+
+  if (i & 1)
+   MD5Name(MD5Update)(&ctx1,(unsigned const char *)final,16);
+  else
+   MD5Name(MD5Update)(&ctx1,(unsigned const char *)pw,strlen(pw));
+  MD5Name(MD5Final)(final,&ctx1);
+ }
+
```

```
+ p = passwd + strlen(passwd);
+
+ l = (final[0] << 16) | (final[6] << 8) | final[12];
+ to64(p, l, 4);
+ p += 4;
+ l = (final[1] << 16) | (final[7] << 8) | final[13];
+ to64(p, l, 4);
+ p += 4;
+ l = (final[2] << 16) | (final[8] << 8) | final[14];
+ to64(p, l, 4);
+ p += 4;
+ l = (final[3] << 16) | (final[9] << 8) | final[15];
+ to64(p, l, 4);
+ p += 4;
+ l = (final[4] << 16) | (final[10] << 8) | final[5];
+ to64(p, l, 4);
+ p += 4;
+ l = final[11];
+ to64(p, l, 2);
+ p += 2;
+ *p = '\0';
+
+ /* Don't leave anything around in vm they could use. */
+ memset(final, 0, sizeof final);
+
+ return
 passwd;
+}
--- sysvinit-2.77/src/Makefile.be Fri Aug 20 12:05:26 1999
+++ sysvinit-2.77/src/Makefile Fri Aug 20 14:20:42 1999
@@ -50,8 +50,8 @@ utmpdump: utmpdump.o
runlevel: runlevel.o
  $(CC) $(LDFLAGS) -o $@ runlevel.o

-sulogin: sulogin.o
-  $(CC) $(LDFLAGS) $(STATIC) -o $@ sulogin.o $(LCRYPT)
+sulogin: sulogin.o md5_broken.o md5_crypt_broken.o
+  $(CC) $(LDFLAGS) $(STATIC) -o $@ $^ $(LCRYPT)

wall:  dowall.o wall.o
  $(CC) $(LDFLAGS) -o $@ dowall.o wall.o
@@ -67,6 +67,12 @@ utmp.o:  utmp.c init.h

init_utmp.o: utmp.c init.h
  $(CC) -c $(CFLAGS) -DINIT_MAIN utmp.c -o init_utmp.o
+
+md5_broken.o: md5.c
+  $(CC) $(CFLAGS) -D'MD5Name(x)=Broken##x' -c $< -o $@
```

```
+
+md5_crypt_broken.o: md5_crypt.c
+  $(CC) $(CFLAGS) -D'MD5Name(x)=Broken##x' -c $< -o $@

cleanobjs:
  rm -f *.o *.bak
--- sysvinit-2.77/src/sulogin.c.be Fri Aug 20 12:05:26 1999
+++ sysvinit-2.77/src/sulogin.c Fri Aug 20 14:20:09 1999
@@ -29,6 +29,7 @@
#if defined(__GLIBC__)
#  include <crypt.h>
#endif
+#include
 "md5.h"

#define CHECK_DES 1
#define CHECK_MD5 1
@@ -392,7 +393,12 @@ int main(int argc, char **argv)
 while(1) {
  if ((p = getpasswd()) == NULL) break;
  if (pwd->pw_passwd[0] == 0 ||
-      strcmp(crypt(p, pwd->pw_passwd), pwd->pw_passwd) == 0)
+      strcmp(crypt(p, pwd->pw_passwd), pwd->pw_passwd) == 0
+#ifdef CHECK_MD5
+      || (strncmp(pwd->pw_passwd, "$1$", 3) == 0 &&
+   strcmp(Brokencrypt_md5(p, pwd->pw_passwd), pwd->pw_passwd) == 0)
+#endif
+      )
   sushell(pwd);
  printf("Login incorrect.\n");
 }
```

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.77-md5-be.patch
No license file was found, but licenses were detected in source scan.

```
/*
* dowall.c Write to all users on the system.
*
* Author: Miquel van Smoorenburg, miquels@cistron.nl
*
* Version: @(#)dowall.c  2.76  19-Apr-1999  miquels@cistron.nl
*
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```

* as published by the Free Software Foundation; either version
* 2 of the License, or (at your option) any later version.
*/

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/dowall.c
No license file was found, but licenses were detected in source scan.

/*
* bootlogd.c Store output from the console during bootup into a file.
* The file is usually located on the /var partition, and
* gets written (and fsynced) as soon as possible.
*
* Version: @(#)bootlogd 2.77 24-Aug-1999 miquels@cistron.nl
*
* Bugs: Uses openpty(), only available in glibc. Sorry.
*
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Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/bootlogd.c
No license file was found, but licenses were detected in source scan.

/*
* wall.c Write to all users logged in.
*
* Usage: wall [text]
*
* Version: @(#)wall 2.75 28-Jul-1998 miquels@cistron.nl
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Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/wall.c

1.53 procd 2022-06-01-7a009685-2

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1.54 python-setuptools 67.6.1

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1		2001-now	PSF	yes

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A. HISTORY OF THE SOFTWARE

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes

2.2 and above	2.1.1	2001-now	
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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.55 libnss-nisplus 2.23

1.55.1 Available under license :

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Author: Adam Conrad <adconrad@ubuntu.com>

--- glibc-2.21.orig/include/features.h
+++ glibc-2.21/include/features.h
@@ -145,7 +145,10 @@
   transitioned to use the new macro. */
#if (defined _BSD_SOURCE || defined _SVID_SOURCE) \
    && !defined _DEFAULT_SOURCE

+/* Don't #warn about _BSD_SOURCE || _SVID_SOURCE, as it breaks -Werror
+   and we don't have time to check/fix everything before vivid release
# warning "_BSD_SOURCE and _SVID_SOURCE are deprecated, use _DEFAULT_SOURCE"
+*/
undef _DEFAULT_SOURCE
define _DEFAULT_SOURCE 1
#endif
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1.56 libnss-nis 2.23

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Author: Adam Conrad <adconrad@ubuntu.com>

--- glibc-2.21.orig/include/features.h
+++ glibc-2.21/include/features.h
@@ -145,7 +145,10 @@
  transitioned to use the new macro. */
#if (defined _BSD_SOURCE || defined _SVID_SOURCE) \
  && !defined _DEFAULT_SOURCE
+/* Don't #warn about _BSD_SOURCE || _SVID_SOURCE, as it breaks -Werror
+   and we don't have time to check/fix everything before vivid release
# warning "_BSD_SOURCE and _SVID_SOURCE are deprecated, use _DEFAULT_SOURCE"
+*/
undef _DEFAULT_SOURCE
define _DEFAULT_SOURCE 1
#endif
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41. mailto:%20mills@udel.edu
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*
* @(#)ip.h 8.1 (Berkeley) 6/10/93
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* /tcpdump-1-tar-gz/tcpdump/print-ospf.c
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/*
* Alternate-PPP (Alt-PPP, proprietary PPP by KDDI)
* Starent Networks - 2004

*/

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* Initial contribution from John Hawkinson (jhawk@mit.edu).
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* @(#) $Header: /tcpdump/master/tcpdump/extract.h,v 1.16 2000/10/03 02:54:55 itojun Exp $ (LBL)
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*/
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*/
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* @(#) $Header: /tcpdump/master/tcpdump/addrtoname.h,v 1.16 1999/10/30 05:11:07 itojun Exp $ (LBL)
*/

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*
* Hacked version of print-ether.c Larry Lile <lile@stdio.com>
*
* Further tweaked to more closely resemble print-fddi.c
* Guy Harris <guy@alum.mit.edu>
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*                                                 *
*                                                 *
* File   :    dcsip-decode.h                              *
*                                                 *
* Author(s):  Debendra Sahu                                 *
*                                                 *
* Description: This file contains DC-SIP stack specific functions for       *
*              decoding the sip message.
               *
*                                                 *
* History:                                            *
*        July 08, 2010 - Initial Creation.                    *
*                                                 *
*****************************************************************************/
```

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```
/* TAG for Proprietary IE - "IMSI" in MAP-CHECK-IMEI operation for TURKCELL */
```

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```
/*Custom16 dictionary is used by Commnet Wireless. The encoding used here is not
ASN. It  is proprietary TLV Format*/
```

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* /tcpdump-1-tar-gz/tcpdump/print-l2tp.c
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* print-bxxp.c
*
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* @(#)ip_icmp.h 8.1 (Berkeley) 6/10/93
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*
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*
* @(#)udp.h 8.1 (Berkeley) 6/10/93
*/

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* This file is part of the SCTP reference Implementation
*
*
* Please send any bug reports or fixes you make to one of the following email
* addresses:
*
* rstewar1@email.mot.com
* kmorneau@cisco.com
* qxie1@email.mot.com
*

* Any bugs reported given to us we will try to fix... any fixes shared will
* be incorperated into the next SCTP release.
*/

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/*
* Definitions that user level programs might need to know to interact
* with serial line IP (slip) lines.
*
* @(#) $Header: /tcpdump/master/tcpdump/slip.h,v 1.1 2000/10/09 01:53:21 guy Exp $
*
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```
/*
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*
* Kevin Steves <ks@hp.se> July 2000
* Modified to:
* - print version, type string and packet length
* - print IP address count if > 1 (-v)
* - verify checksum (-v)
* - print authentication string (-v)
*
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* Code by Gert Doering, SpaceNet GmbH, gert@space.net
*
* Reference documentation:
*   http://www.cisco.com/univercd/cc/td/doc/product/lan/trsrb/frames.htm
*/

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

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/* Note: Proprietary IE -"IMSI" is added as OPTIONAL param ,
  Requested Equipment Info & EXT container are present only in MAP VER3 so set   \
  as OPTIONAL
*/

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*
*
* @(#) $Header: /tcpdump/master/tcpdump/tcpdump-stdinc.h,v 1.7.2.1 2003/11/16 09:57:50 guy Exp $ (LBL)
*/
```

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*
* Format and print bootp packets.
*/

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* @(#) $Header: /tcpdump/master/tcpdump/ethertype.h,v 1.12 2000/09/23 08:03:30 guy Exp $ (LBL)
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*
* Format and print AppleTalk packets.
*/

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* @(#) $Header: /tcpdump/master/tcpdump/decnet.h,v 1.7 2000/10/03 02:54:55 itojun Exp $ (LBL)
*/
```

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* @(#) $Header: /tcpdump/master/tcpdump/fddi.h,v 1.9 2000/10/09 02:59:39 guy Exp $ (LBL)
*/

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* /tcpdump-1-tar-gz/tcpdump/print-frag6.c
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* @(#) $Header: /tcpdump/master/tcpdump/gmt2local.h,v 1.2.1.1 1999/10/07 23:47:10 mcr Exp $ (LBL)
*/

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*
* AppleTalk protocol formats (courtesy Bill Croft of Stanford/SUMEX).
*
* @(#) $Header: /tcpdump/master/tcpdump/appletalk.h,v 1.13 2000/10/03 02:54:54 itojun Exp $ (LBL)
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* @(#)nfsproto.h 8.2 (Berkeley) 3/30/95
*/

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*
* Internet, ethernet, port, and protocol string to address
* and address to string conversion routines
*/

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* /tcpdump-1-tar-gz/tcpdump/print-pppoe.c
* /tcpdump-1-tar-gz/tcpdump/tcpdump.c
* /tcpdump-1-tar-gz/tcpdump/print-tcp.c
* /tcpdump-1-tar-gz/tcpdump/print-lcp.c
* /tcpdump-1-tar-gz/tcpdump/print-udp.c
* /tcpdump-1-tar-gz/tcpdump/print-ip.c
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*
* Format and print trivial file transfer protocol packets.
*/

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*/
/*
  * When negotiating ESP without authentication, the Auth
  * Algorithm attribute MUST NOT be included in the proposal.
  * When negotiating ESP without confidentiality, the Auth
  * Algorithm attribute MUST be included in the proposal and
  * the ESP transform ID must be ESP_NULL.
 */
```

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* /tcpdump-1-tar-gz/tcpdump/ipsec_ikev2_doi.h

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*
* Initial contribution from John Hawkinson <jhawk@bbnplanet.com>
 *
* This module implements support for decoding GRE (Generic Routing
* Encapsulation) tunnels; they're documented in RFC1701 and RFC1702.
* This code only supports the IP encapsulation thereof.
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*
* Format and print ntp packets.
* By Jeffrey Mogul/DECWRL
* loosely based on print-bootp.c
*/

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* /tcpdump-1-tar-gz/tcpdump/print-vjc.c
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* /tcpdump-1-tar-gz/tcpdump/chdlc.h
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* @(#) $Header: /tcpdump/master/tcpdump/interface.h,v 1.149 2001/01/02 22:47:06 guy Exp $ (LBL)
*/

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*
* Format and print IEEE 802.1d spanning tree protocol packets.
* Contributed by Lennert Buytenhek <buytenh@gnu.org>
*/

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"PortMaster(proprietary)",

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```
/*
* Definitions for tcp compression routines.
*
* @(#) $Header: /tcpdump/master/tcpdump/slcompress.h,v 1.2 2000/10/09 02:03:44 guy Exp $ (LBL)
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* Original code by Hannes Gredler (hannes@juniper.net)
*/
```

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```

```
* File   :    dcsip-decode.c                                    *
*                                                              *
* Author(s):  Debendra Sahu                                    *
*                                                              *
* Description: This file contains DC-SIP stack specific functions for      *
*              decoding the sip message.
               *
*                                                              *
* History:                                                     *
*        July 08, 2010 - Initial Creation.                     *
*                                                              *
*****************************************************************************/
```

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```

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```
/*
        * Move past the unrecognized extension; note that the length field
        * is not always a byte long and our computation may be incorrect in
        * such cases where new or proprietary extensions with length fields
        * of 2 or more bytes are received.
        */
```

Found in path(s):
* /tcpdump-1-tar-gz/tcpdump/print-a11.c

1.65 e2fsprogs 1.47.0

1.65.1 Available under license :

```
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
```

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

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell              2005
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    ** NOTE! The following LGPL license applies to the tdb
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```

```
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Upstream-Name: e2fsprogs
Upstream-Contact: Theodore Ts'o <tytso@mit.edu>
Source: http://sourceforge.net/projects/e2fsprogs
Comment:
This is the Debian GNU/Linux prepackaged version of the EXT2 file
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written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Theodore Ts'o
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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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.

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

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derivative work of the Library even though the source code is not.
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linked without the Library,
 or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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

That's all there is to it!

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

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs
```

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

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

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1.66 pam 1.5.2

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library does the same job as widely used non-free libraries. In this
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1.68 pcre 8.44

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1.69 libevent 2.1.12

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1.70 nfs-utils 2.1.1

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@c ispell-local-pdict: "ispell-dict"
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1.72 iputils 20070202

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

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* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/tftp.h

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/* pg3.c: Packet Generator for packet performance testing.
*
* Copyright 2001 by Robert Olsson <robert.olsson@its.uu.se>
*   Uppsala University, Sweden
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*
*
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diff -urN iputils-20070202/doc/arping.8 iputils-20070202-man/doc/arping.8
--- iputils-20070202/doc/arping.8 1969-12-31 16:00:00.000000000 -0800
+++ iputils-20070202-man/doc/arping.8 2007-06-04 08:43:27.000000000 -0700
@@ -0,0 +1,110 @@
+.\" This manpage has been automatically generated by docbook2man
+.\" from a DocBook document. This tool can be found at:
+.\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
+.\" Please send any bug reports, improvements, comments, patches,
+.\" etc. to Steve Cheng <steve@ggi-project.org>.
+.TH "ARPING" "8" "04 June 2007" "iputils-070202" "System Manager's Manual: iputils"
+.SH NAME
+arping \- send ARP REQUEST to a neighbour host
+.SH SYNOPSIS
+

+\fBarping\fR [\fB-AbDfhqUV\fR] [\fB-c \fIcount\fB\fR] [\fB-w \fIdeadline\fB\fR] [\fB-s \fIsource\fB\fR] \fB-I \fIinterface\fB\fR \fB\fIdestination\fB\fR
+
+.SH "DESCRIPTION"
+.PP
+Ping \fIdestination\fR on device \fIinterface\fR by ARP
 packets,
+using source address \fIsource\fR.
+.SH "OPTIONS"
+.TP
+\fB-A\fR
+The same as \fB-U\fR, but ARP REPLY packets used instead
+of ARP REQUEST.
+.TP
+\fB-b\fR
+Send only MAC level broadcasts. Normally \fBarping\fR starts
+from sending broadcast, and switch to unicast after reply received.
+.TP
+\fB-c \fIcount\fB\fR
+Stop after sending \fIcount\fR ARP REQUEST
+packets. With
+\fIdeadline\fR
+option, \fBarping\fR waits for
+\fIcount\fR ARP REPLY packets, until the timeout expires.
+.TP
+\fB-D\fR
+Duplicate address detection mode (DAD). See
+RFC2131, 4.4.1.
+Returns 0, if DAD succeeded i.e. no replies are received
+.TP
+\fB-f\fR
+Finish after the first reply confirming that target is alive.
+.TP
+\fB-I \fIinterface\fB\fR
+Name of network device where to send ARP REQUEST packets. This option
+is required.
+.TP
+\fB-h\fR
+Print help page and exit.
+.TP
+\fB-q\fR
+Quiet output. Nothing is displayed.
+.TP
+\fB-s \fIsource\fB\fR
+IP source address to use in ARP packets.
+If this option
 is absent, source address is:
+.RS

+.TP 0.2i
+\(bu
+In DAD mode (with option \fB-D\fR) set to 0.0.0.0.
+.TP 0.2i
+\(bu
+In Unsolicited ARP mode (with options \fB-U\fR or \fB-A\fR)
+set to \fIdestination\fR.
+.TP 0.2i
+\(bu
+Otherwise, it is calculated from routing tables.
+.RE
+.TP
+\fB-U\fR
+Unsolicited ARP mode to update neighbours' ARP caches.
+No replies are expected.
+.TP
+\fB-V\fR
+Print version of the program and exit.
+.TP
+\fB-w \fIdeadline\fB\fR
+Specify a timeout, in seconds, before
+\fBarping\fR
+exits regardless of how many
+packets have been sent or received. In this case
+\fBarping\fR
+does not stop after
+\fIcount\fR
+packet are sent, it waits either for
+\fIdeadline\fR
+expire or until
+\fIcount\fR
+probes are answered.
+.SH "SEE ALSO"
+.PP
+\fBping\fR(8),
+\fBclockdiff\fR(8),
+\fBtracepath\fR(8).
+.SH "AUTHOR"
+.PP
+\fBarping\fR was written by
+Alexey Kuznetsov
+<kuznet@ms2.inr.ac.ru>.
+It is now maintained by
+YOSHIFUJI Hideaki
+<yoshfuji@skbuff.net>.
+.SH "SECURITY"
+.PP
+\fBarping\fR

requires CAP_NET_RAWIO capability
+to be executed. It is not recommended to be used as set-uid root,
+because it allows user to modify ARP caches of neighbour hosts.
+.SH "AVAILABILITY"
+.PP
+\fBarping\fR is part of \fIiputils\fR package
+and the latest versions are available in source form at
+http://www.skbuff.net/iputils/iputils-current.tar.bz2.
diff -urN iputils-20070202/doc/clockdiff.8 iputils-20070202-man/doc/clockdiff.8
--- iputils-20070202/doc/clockdiff.8 1969-12-31 16:00:00.000000000 -0800
+++ iputils-20070202-man/doc/clockdiff.8 2007-06-04 08:43:28.000000000 -0700
@@ -0,0 +1,81 @@
+.\" This manpage has been automatically generated by docbook2man
+.\" from a DocBook document. This tool can be found at:
+.\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
+.\" Please send any bug reports, improvements, comments, patches,
+.\" etc. to Steve Cheng <steve@ggi-project.org>.
+.TH "CLOCKDIFF" "8" "04 June 2007" "iputils-070202" "System Manager's Manual:
 iputils"
+.SH NAME
+clockdiff \- measure clock difference between hosts
+.SH SYNOPSIS
+
+\fBclockdiff\fR [\fB-o\fR] [\fB-o1\fR] \fB\fIdestination\fB\fR
+
+.SH "DESCRIPTION"
+.PP
+\fBclockdiff\fR Measures clock difference between us and
+\fIdestination\fR with 1 msec resolution using ICMP TIMESTAMP
+[2]
+packets or, optionally, IP TIMESTAMP option
+[3]
+option added to ICMP ECHO.
+[1]
+.SH "OPTIONS"
+.TP
+\fB-o\fR
+Use IP TIMESTAMP with ICMP ECHO instead of ICMP TIMESTAMP
+messages. It is useful with some destinations, which do not support
+ICMP TIMESTAMP (f.e. Solaris <2.4).
+.TP
+\fB-o1\fR
+Slightly different form of \fB-o\fR, namely it uses three-term
+IP TIMESTAMP with prespecified hop addresses instead of four term one.
+What flavor works better depends on target host. Particularly,
+\fB-o\fR is better for Linux.
+.SH "WARNINGS"
+.TP 0.2i

+\(bu
+Some nodes (Cisco) use non-standard timestamps, which is allowed
+by RFC, but makes timestamps mostly useless.
+.TP 0.2i
+\(bu
+Some nodes
 generate messed timestamps (Solaris>2.4), when
+run \fBxntpd\fR. Seems, its IP stack uses a corrupted clock source,
+which is synchronized to time-of-day clock periodically and jumps
+randomly making timestamps mostly useless. Good news is that you can
+use NTP in this case, which is even better.
+.TP 0.2i
+\(bu
+\fBclockdiff\fR shows difference in time modulo 24 days.
+.SH "SEE ALSO"
+.PP
+\fBping\fR(8),
+\fBarping\fR(8),
+\fBtracepath\fR(8).
+.SH "REFERENCES"
+.PP
+[1] ICMP ECHO,
+RFC0792, page 14.
+.PP
+[2] ICMP TIMESTAMP,
+RFC0792, page 16.
+.PP
+[3] IP TIMESTAMP option,
+RFC0791, 3.1, page 16.
+.SH "AUTHOR"
+.PP
+\fBclockdiff\fR was compiled by
+Alexey Kuznetsov
+<kuznet@ms2.inr.ac.ru>. It was based on code borrowed
+from BSD \fBtimed\fR daemon.
+It is now maintained by
+YOSHIFUJI Hideaki
+<yoshfuji@skbuff.net>.
+.SH "SECURITY"
+.PP
+\fBclockdiff\fR requires CAP_NET_RAWIO capability
+to be executed. It is safe to be used as set-uid root.
+.SH "AVAILABILITY"
+.PP
+\fBclockdiff\fR
 is part of \fIiputils\fR package
+and the latest versions are available in source form at
+http://www.skbuff.net/iputils/iputils-current.tar.bz2.

```
diff -urN iputils-20070202/doc/pg3.8 iputils-20070202-man/doc/pg3.8
--- iputils-20070202/doc/pg3.8 1969-12-31 16:00:00.000000000 -0800
+++ iputils-20070202-man/doc/pg3.8 2007-06-04 08:43:29.000000000 -0700
@@ -0,0 +1,86 @@
+.\" This manpage has been automatically generated by docbook2man
+.\" from a DocBook document.  This tool can be found at:
+.\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
+.\" Please send any bug reports, improvements, comments, patches,
+.\" etc. to Steve Cheng <steve@ggi-project.org>.
+.TH "PG3" "8" "04 June 2007" "iputils-070202" "System Manager's Manual: iputils"
+.SH NAME
+pg3, ipg, pgset \- send stream of UDP packets
+.SH SYNOPSIS
+
+\fBsource ipg\fR
+
+
+\fBpg\fR
+
+
+\fBpgset\fR \fB\fICOMMAND\fB\fR
+
+.SH "DESCRIPTION"
+.PP
+\fBipg\fR is not a program, it is script which should be sourced
+to \fBbash\fR.
 When sourced it loads module \fIpg3\fR and
+exports a few of functions accessible from parent shell. These macros
+are \fBpg\fR to start packet injection and to get the results of run;
+and \fBpgset\fR to setup packet generator.
+.PP
+\fBpgset\fR can send the following commands to module \fIpg3\fR:
+.SH "COMMAND"
+.TP
+\fBodev \fIDEVICE\fB\fR
+Name of Ethernet device to test. See
+warning below.
+.TP
+\fBpkt_size \fIBYTES\fB\fR
+Size of packet to generate. The size includes all the headers: UDP, IP,
+MAC, but does not account for overhead internal to medium, i.e. FCS
+and various paddings.
+.TP
+\fBfrags \fINUMBER\fB\fR
+Each packet will contain \fINUMBER\fR of fragments.
+Maximal amount for linux-2.4 is 6. Far not all the devices support
+fragmented buffers.
+.TP
```

+\fBcount \fINUMBER\fB\fR
+Send stream of \fINUMBER\fR of packets and stop after this.
+.TP
+\fBipg \fITIME\fB\fR
+Introduce artificial delay between packets of \fITIME\fR
+microseconds.
+.TP
+\fBdst \fIIP_ADDRESS\fB\fR
+Select
 IP destination where the stream is sent to.
+Beware, never set this address at random. \fBpg3\fR is not a toy,
+it creates really tough stream. Default value is 0.0.0.0.
+.TP
+\fBdst \fIMAC_ADDRESS\fB\fR
+Select MAC destination where the stream is sent to.
+Default value is 00:00:00:00:00:00 in hope that this will not be received
+by any node on LAN.
+.TP
+\fBstop\fR
+Abort packet injection.
+.SH "WARNING"
+.PP
+When output device is set to some random device different
+of hardware Ethernet device, \fBpg3\fR will crash kernel.
+.PP
+Do not use it on VLAN, ethertap, VTUN and other devices,
+which emulate Ethernet not being real Ethernet in fact.
+.SH "AUTHOR"
+.PP
+\fBpg3\fR was written by Robert Olsson <robert.olsson@its.uu.se>.
+.SH "SECURITY"
+.PP
+This can be used only by superuser.
+.PP
+This tool creates floods of packets which is unlikely to be handled
+even by high-end machines. For example, it saturates gigabit link with
+60 byte packets when used with Intel's e1000. In face
 of such stream
+switches, routers and end hosts may deadlock, crash, explode.
+Use only in test lab environment.
+.SH "AVAILABILITY"
+.PP
+\fBpg3\fR is part of \fIiputils\fR package
+and the latest versions are available in source form at
+http://www.skbuff.net/iputils/iputils-current.tar.bz2.
diff -urN iputils-20070202/doc/ping.8 iputils-20070202-man/doc/ping.8
--- iputils-20070202/doc/ping.8 1969-12-31 16:00:00.000000000 -0800
+++ iputils-20070202-man/doc/ping.8 2007-06-04 08:43:30.000000000 -0700

```
@@ -0,0 +1,332 @@
+.\" This manpage has been automatically generated by docbook2man
+.\" from a DocBook document.  This tool can be found at:
+.\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
+.\" Please send any bug reports, improvements, comments, patches,
+.\" etc. to Steve Cheng <steve@ggi-project.org>.
+.TH "PING" "8" "04 June 2007" "iputils-070202" "System Manager's Manual: iputils"
+.SH NAME
+ping, ping6 \- send ICMP ECHO_REQUEST to network hosts
+.SH SYNOPSIS
+
+\fBping\fR
 [\fB-LRUbdfnqrvVaAB\fR] [\fB-c \fIcount\fB\fR] [\fB-i \fIinterval\fB\fR] [\fB-l \fIpreload\fB\fR] [\fB-p
\fIpattern\fB\fR] [\fB-s \fIpacketsize\fB\fR] [\fB-t \fIttl\fB\fR] [\fB-w \fIdeadline\fB\fR] [\fB-F \fIflowlabel\fB\fR]
[\fB-I \fIinterface\fB\fR] [\fB-M \fIhint\fB\fR] [\fB-Q \fItos\fB\fR] [\fB-S \fIsndbuf\fB\fR] [\fB-T \fItimestamp
option\fB\fR] [\fB-W \fItimeout\fB\fR] [\fB\fIhop\fB\fR\fI ...\fR] \fB\fIdestination\fB\fR
+
+.SH "DESCRIPTION"
+.PP
+\fBping\fR uses the ICMP protocol's mandatory ECHO_REQUEST
+datagram to elicit an ICMP ECHO_RESPONSE from a host or gateway.
+ECHO_REQUEST datagrams (``pings'') have an IP and ICMP
+header, followed by a struct timeval and then an arbitrary
+number of ``pad'' bytes used to fill out the packet.
+.SH "OPTIONS"
+.TP
+\fB-a\fR
+Audible ping.
+.TP
+\fB-A\fR
+Adaptive ping. Interpacket interval adapts to round-trip time, so that
+effectively not more than one (or more, if preload is set) unanswered probes
+present in the network. Minimal interval
 is 200msec for not super-user.
+On networks with low rtt this mode is essentially equivalent to flood mode.
+.TP
+\fB-b\fR
+Allow pinging a broadcast address.
+.TP
+\fB-B\fR
+Do not allow \fBping\fR to change source address of probes.
+The address is bound to one selected when \fBping\fR starts.
+.TP
+\fB-c \fIcount\fB\fR
+Stop after sending \fIcount\fR ECHO_REQUEST
+packets. With
+\fIdeadline\fR
+option, \fBping\fR waits for
```

+\fIcount\fR ECHO_REPLY packets, until the timeout expires.
+.TP
+\fB-d\fR
+Set the SO_DEBUG option on the socket being used.
+Essentially, this socket option is not used by Linux kernel.
+.TP
+\fB-F \fIflow label\fB\fR
+Allocate and set 20 bit flow label on echo request packets.
+(Only \fBping6\fR). If value is zero, kernel allocates random flow label.
+.TP
+\fB-f\fR
+Flood ping. For every ECHO_REQUEST sent a period ``." is printed,
+while for ever ECHO_REPLY received a backspace is printed.
+This provides a rapid display of how many packets are being
dropped.
+If interval is not given, it sets interval to zero and
+outputs packets as fast as they come back or one hundred times per second,
+whichever is more.
+Only the super-user may use this option with zero interval.
+.TP
+\fB-i \fIinterval\fB\fR
+Wait \fIinterval\fR seconds between sending each packet.
+The default is to wait for one second between each packet normally,
+or not to wait in flood mode. Only super-user may set interval
+to values less 0.2 seconds.
+.TP
+\fB-I \fIinterface address\fB\fR
+Set source address to specified interface address. Argument
+may be numeric IP address or name of device. When pinging IPv6
+link-local address this option is required.
+.TP
+\fB-l \fIpreload\fB\fR
+If \fIpreload\fR is specified,
+\fBping\fR sends that many packets not waiting for reply.
+Only the super-user may select preload more than 3.
+.TP
+\fB-L\fR
+Suppress loopback of multicast packets. This flag only applies if the ping
+destination is a multicast address.
+.TP
+\fB-n\fR
+Numeric
output only.
+No attempt will be made to lookup symbolic names for host addresses.
+.TP
+\fB-p \fIpattern\fB\fR
+You may specify up to 16 ``pad" bytes to fill out the packet you send.
+This is useful for diagnosing data-dependent problems in a network.

+For example, \fB-p ff\fR will cause the sent packet
+to be filled with all ones.
+.TP
+\fB-Q \fItos\fB\fR
+Set Quality of Service -related bits in ICMP datagrams.
+\fItos\fR can be either decimal or hex number.
+Traditionally (RFC1349), these have been interpreted as: 0 for reserved
+(currently being redefined as congestion control), 1-4 for Type of Service
+and 5-7 for Precedence.
+Possible settings for Type of Service are: minimal cost: 0x02,
+reliability: 0x04, throughput: 0x08, low delay: 0x10. Multiple TOS bits
+should not be set simultaneously. Possible settings for
+special Precedence range from priority (0x20) to net control (0xe0). You
+must be root (CAP_NET_ADMIN capability) to use Critical or
+higher precedence
 value. You cannot set
+bit 0x01 (reserved) unless ECN has been enabled in the kernel.
+In RFC2474, these fields has been redefined as 8-bit Differentiated
+Services (DS), consisting of: bits 0-1 of separate data (ECN will be used,
+here), and bits 2-7 of Differentiated Services Codepoint (DSCP).
+.TP
+\fB-q\fR
+Quiet output.
+Nothing is displayed except the summary lines at startup time and
+when finished.
+.TP
+\fB-R\fR
+Record route.
+Includes the RECORD_ROUTE option in the ECHO_REQUEST
+packet and displays the route buffer on returned packets.
+Note that the IP header is only large enough for nine such routes.
+Many hosts ignore or discard this option.
+.TP
+\fB-r\fR
+Bypass the normal routing tables and send directly to a host on an attached
+interface.
+If the host is not on a directly-attached network, an error is returned.
+This option can be used to ping a local host through an interface
+that has no route through it provided the option \fB-I\fR is also
+used.
+.TP
+\fB-s \fIpacketsize\fB\fR
+Specifies
 the number of data bytes to be sent.
+The default is 56, which translates into 64 ICMP
+data bytes when combined with the 8 bytes of ICMP header data.
+.TP
+\fB-S \fIsndbuf\fB\fR

+Set socket sndbuf. If not specified, it is selected to buffer
+not more than one packet.
+.TP
+\fB-t \fIttl\fB\fR
+Set the IP Time to Live.
+.TP
+\fB-T \fItimestamp option\fB\fR
+Set special IP timestamp options.
+\fItimestamp option\fR may be either
+\fItsonly\fR (only timestamps),
+\fItsandaddr\fR (timestamps and addresses) or
+\fItsprespec host1 [host2 [host3 [host4]]]\fR
+(timestamp prespecified hops).
+.TP
+\fB-M \fIhint\fB\fR
+Select Path MTU Discovery strategy.
+\fIhint\fR may be either \fIdo\fR
+(prohibit fragmentation, even local one),
+\fIwant\fR (do PMTU discovery, fragment locally when packet size
+is large), or \fIdont\fR (do not set DF flag).
+.TP
+\fB-U\fR
+Print full user-to-user latency (the old behaviour). Normally
+\fBping\fR
+prints network round trip time,
 which can be different
+f.e. due to DNS failures.
+.TP
+\fB-v\fR
+Verbose output.
+.TP
+\fB-V\fR
+Show version and exit.
+.TP
+\fB-w \fIdeadline\fB\fR
+Specify a timeout, in seconds, before
+\fBping\fR
+exits regardless of how many
+packets have been sent or received. In this case
+\fBping\fR
+does not stop after
+\fIcount\fR
+packet are sent, it waits either for
+\fIdeadline\fR
+expire or until
+\fIcount\fR
+probes are answered or for some error notification from network.
+.TP

+\fB-W \fItimeout\fB\fR
+Time to wait for a response, in seconds. The option affects only timeout
+in absense of any responses, otherwise \fBping\fR waits for two RTTs.
+.PP
+When using \fBping\fR for fault isolation, it should first be run
+on the local host, to verify that the local network interface is up
+and running. Then, hosts and gateways further and further away should be
+``pinged". Round-trip times and packet loss statistics are computed.
+If duplicate packets are received, they are not included
 in the packet
+loss calculation, although the round trip time of these packets is used
+in calculating the minimum/average/maximum round-trip time numbers.
+When the specified number of packets have been sent (and received) or
+if the program is terminated with a
+SIGINT, a brief summary is displayed. Shorter current statistics
+can be obtained without termination of process with signal
+SIGQUIT.
+.PP
+If \fBping\fR does not receive any reply packets at all it will
+exit with code 1. If a packet
+\fIcount\fR
+and
+\fIdeadline\fR
+are both specified, and fewer than
+\fIcount\fR
+packets are received by the time the
+\fIdeadline\fR
+has arrived, it will also exit with code 1.
+On other error it exits with code 2. Otherwise it exits with code 0. This
+makes it possible to use the exit code to see if a host is alive or
+not.
+.PP
+This program is intended for use in network testing, measurement and
+management.
+Because of the load it can impose on the network, it is unwise to use
+\fBping\fR
 during normal operations or from automated scripts.
+.SH "ICMP PACKET DETAILS"
+.PP
+An IP header without options is 20 bytes.
+An ICMP ECHO_REQUEST packet contains an additional 8 bytes worth
+of ICMP header followed by an arbitrary amount of data.
+When a \fIpacketsize\fR is given, this indicated the size of this
+extra piece of data (the default is 56). Thus the amount of data received
+inside of an IP packet of type ICMP ECHO_REPLY will always be 8 bytes
+more than the requested data space (the ICMP header).
+.PP
+If the data space is at least of size of struct timeval

+\fBping\fR uses the beginning bytes of this space to include
+a timestamp which it uses in the computation of round trip times.
+If the data space is shorter, no round trip times are given.
+.SH "DUPLICATE AND DAMAGED PACKETS"
+.PP
+\fBping\fR will report duplicate and damaged packets.
+Duplicate packets should never occur, and seem to be caused by
+inappropriate link-level retransmissions.
+Duplicates may
 occur in many situations and are rarely (if ever) a
+good sign, although the presence of low levels of duplicates may not
+always be cause for alarm.
+.PP
+Damaged packets are obviously serious cause for alarm and often
+indicate broken hardware somewhere in the
+\fBping\fR packet's path (in the network or in the hosts).
+.SH "TRYING DIFFERENT DATA PATTERNS"
+.PP
+The (inter)network layer should never treat packets differently depending
+on the data contained in the data portion.
+Unfortunately, data-dependent problems have been known to sneak into
+networks and remain undetected for long periods of time.
+In many cases the particular pattern that will have problems is something
+that doesn't have sufficient ``transitions'', such as all ones or all
+zeros, or a pattern right at the edge, such as almost all zeros.
+It isn't necessarily enough to specify a data pattern of all zeros (for
+example) on the command line because the pattern that is of interest is
+at the data link level, and
 the relationship between what you type and
+what the controllers transmit can be complicated.
+.PP
+This means that if you have a data-dependent problem you will probably
+have to do a lot of testing to find it.
+If you are lucky, you may manage to find a file that either can't be sent
+across your network or that takes much longer to transfer than other
+similar length files.
+You can then examine this file for repeated patterns that you can test
+using the \fB-p\fR option of \fBping\fR.
+.SH "TTL DETAILS"
+.PP
+The TTL value of an IP packet represents the maximum number of IP routers
+that the packet can go through before being thrown away.
+In current practice you can expect each router in the Internet to decrement
+the TTL field by exactly one.
+.PP
+The TCP/IP specification states that the TTL field for TCP
+packets should be set to 60, but many systems use smaller values
+(4.3 BSD uses 30, 4.2 used 15).

+.PP
+The maximum possible value of this field is 255, and most Unix systems
 set
+the TTL field of ICMP ECHO_REQUEST packets to 255.
+This is why you will find you can ``ping'' some hosts, but not reach them
+with
+\fBtelnet\fR(1)
+or
+\fBftp\fR(1).
+.PP
+In normal operation ping prints the ttl value from the packet it receives.
+When a remote system receives a ping packet, it can do one of three things
+with the TTL field in its response:
+.TP 0.2i
+\(bu
+Not change it; this is what Berkeley Unix systems did before the
+4.3BSD Tahoe release. In this case the TTL value in the received packet
+will be 255 minus the number of routers in the round-trip path.
+.TP 0.2i
+\(bu
+Set it to 255; this is what current Berkeley Unix systems do.
+In this case the TTL value in the received packet will be 255 minus the
+number of routers in the path \fBfrom\fR
+the remote system \fBto\fR the \fBping\fRing host.
+.TP 0.2i
+\(bu
+Set it to some other value. Some machines use the same value for
+ICMP packets that they use for TCP packets, for example either 30 or 60.
+Others may
 use completely wild values.
+.SH "BUGS"
+.TP 0.2i
+\(bu
+Many Hosts and Gateways ignore the RECORD_ROUTE option.
+.TP 0.2i
+\(bu
+The maximum IP header length is too small for options like
+RECORD_ROUTE to be completely useful.
+There's not much that that can be done about this, however.
+.TP 0.2i
+\(bu
+Flood pinging is not recommended in general, and flood pinging the
+broadcast address should only be done under very controlled conditions.
+.SH "SEE ALSO"
+.PP
+\fBnetstat\fR(1),
+\fBifconfig\fR(8).
+.SH "HISTORY"

```
+.PP
+The \fBping\fR command appeared in 4.3BSD.
+.PP
+The version described here is its descendant specific to Linux.
+.SH "SECURITY"
+.PP
+\fBping\fR requires CAP_NET_RAWIO capability
+to be executed. It may be used as set-uid root.
+.SH "AVAILABILITY"
+.PP
+\fBping\fR is part of \fIiputils\fR package
+and the latest versions are  available in source form at
+http://www.skbuff.net/iputils/iputils-current.tar.bz2.
diff -urN iputils-20070202/doc/rarpd.8 iputils-20070202-man/doc/rarpd.8
---
 iputils-20070202/doc/rarpd.8 1969-12-31 16:00:00.000000000 -0800
+++ iputils-20070202-man/doc/rarpd.8 2007-06-04 08:43:31.000000000 -0700
@@ -0,0 +1,84 @@
+.\" This manpage has been automatically generated by docbook2man
+.\" from a DocBook document.  This tool can be found at:
+.\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
+.\" Please send any bug reports, improvements, comments, patches,
+.\" etc. to Steve Cheng <steve@ggi-project.org>.
+.TH "RARPD" "8" "04 June 2007" "iputils-070202" "System Manager's Manual: iputils"
+.SH NAME
+rarpd \- answer RARP REQUESTs
+.SH SYNOPSIS
+
+\fBarping\fR [\fB-aAvde\fR] [\fB-b \fIbootdir\fB\fR] [\fB\fIinterface\fB\fR]
+
+.SH "DESCRIPTION"
+.PP
+Listens
+RARP
+requests from clients. Provided MAC address of client
+is found in \fI/etc/ethers\fR database and
+obtained host name is resolvable to an IP address appropriate
+for attached network, \fBrarpd\fR answers to client with RARPD
+reply carrying an IP address.
+.PP
+To allow
+ multiple boot servers on the network \fBrarpd\fR
+optionally checks for presence Sun-like bootable image in TFTP directory.
+It should have form \fBHexadecimal_IP.ARCH\fR, f.e. to load
+sparc 193.233.7.98 \fIC1E90762.SUN4M\fR is linked to
+an image appropriate for SUM4M in directory \fI/etc/tftpboot\fR.
+.SH "WARNING"
+.PP
```

+This facility is deeply obsoleted by
+BOOTP
+and later
+DHCP protocols.
+However, some clients really still need this to boot.
+.SH "OPTIONS"
+.TP
+\fB-a\fR
+Listen on all the interfaces. Currently it is an internal
+option, its function is overridden with \fIinterface\fR
+argument. It should not be used.
+.TP
+\fB-A\fR
+Listen not only RARP but also ARP messages, some rare clients
+use ARP by some unknown reason.
+.TP
+\fB-v\fR
+Be verbose.
+.TP
+\fB-d\fR
+Debug mode. Do not go to background.
+.TP
+\fB-e\fR
+Do not check for presence of a boot image, reply if MAC address
+resolves to a valid IP address using \fI/etc/ethers\fR
+database and DNS.
+.TP
+\fB-b \fIbootdir\fB\fR
+TFTP
 boot directory. Default is \fI/etc/tftpboot\fR
+.SH "SEE ALSO"
+.PP
+\fBarping\fR(8),
+\fBtftpd\fR(8).
+.SH "AUTHOR"
+.PP
+\fBrarpd\fR was written by
+Alexey Kuznetsov
+<kuznet@ms2.inr.ac.ru>.
+It is now maintained by
+YOSHIFUJI Hideaki
+<yoshfuji@skbuff.net>.
+.SH "SECURITY"
+.PP
+\fBrarpd\fR requires CAP_NET_RAWIO capability
+to listen and send RARP and ARP packets. It also needs CAP_NET_ADMIN
+to give to kernel hint for ARP resolution; this is not strictly required,
+but some (most of, to be more exact) clients are so badly broken that

```
+are not able to answer ARP before they are finally booted. This is
+not wonderful taking into account that clients using RARPD in 2002
+are all unsupported relic creatures of 90's and even earlier.
+.SH "AVAILABILITY"
+.PP
+\fBrarpd\fR is part of \fIiputils\fR package
+and the latest versions are  available in source form at
+http://www.skbuff.net/iputils/iputils-current.tar.bz2.
diff -urN iputils-20070202/doc/rdisc.8 iputils-20070202-man/doc/rdisc.8
---
 iputils-20070202/doc/rdisc.8 1969-12-31 16:00:00.000000000 -0800
+++ iputils-20070202-man/doc/rdisc.8 2007-06-04 08:43:32.000000000 -0700
@@ -0,0 +1,110 @@
+.\" This manpage has been automatically generated by docbook2man
+.\" from a DocBook document.  This tool can be found at:
+.\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
+.\" Please send any bug reports, improvements, comments, patches,
+.\" etc. to Steve Cheng <steve@ggi-project.org>.
+.TH "RDISC" "8" "04 June 2007" "iputils-070202" "System Manager's Manual: iputils"
+.SH NAME
+rdisc \- network router discovery daemon
+.SH SYNOPSIS
+
+\fBrdisc\fR [\fB-abdfstvV\fR] [\fB\fIsend_address\fB\fR] [\fB\fIreceive_address\fB\fR]
+
+.SH "DESCRIPTION"
+.PP
+\fBrdisc\fR implements client side of the ICMP router discover protocol.
+\fBrdisc\fR is invoked at boot time to populate the network
+routing tables with default routes.
+.PP
+\fBrdisc\fR listens on the ALL_HOSTS (224.0.0.1) multicast address
+(or \fIreceive_address\fR
 provided it is given)
+for ROUTER_ADVERTISE messages from routers. The received
+messages are handled by first ignoring those listed router addresses
+with which the host does not share a network. Among the remaining addresses
+the ones with the highest preference are selected as default routers
+and a default route is entered in the kernel routing table
+for each one of them.
+.PP
+Optionally, \fBrdisc\fR can avoid waiting for routers to announce
+themselves by sending out a few ROUTER_SOLICITATION messages
+to the ALL_ROUTERS (224.0.0.2) multicast address
+(or \fIsend_address\fR provided it is given)
+when it is started.
+.PP
+A timer is associated with each router address and the address will
```

+no longer be considered for inclusion in the the routing tables if the
+timer expires before a new
+\fBadvertise\fR message is received from the router.
+The address will also be excluded from consideration if the host receives an
+\fBadvertise\fR
+message with the preference
 being maximally negative.
+.PP
+Server side of router discovery protocol is supported by Cisco IOS
+and by any more or less complete UNIX routing daemon, f.e \fBgated\fR.
+.SH "OPTIONS"
+.TP
+\fB-a\fR
+Accept all routers independently of the preference they have in their
+\fBadvertise\fR messages.
+Normally \fBrdisc\fR only accepts (and enters in the kernel routing
+tables) the router or routers with the highest preference.
+.TP
+\fB-b\fR
+Opposite to \fB-a\fR, i.e. install only router with the best
+preference value. It is default behaviour.
+.TP
+\fB-d\fR
+Send debugging messages to syslog.
+.TP
+\fB-f\fR
+Run \fBrdisc\fR forever even if no routers are found.
+Normally \fBrdisc\fR gives up if it has not received any
+\fBadvertise\fR message after after soliciting three times,
+in which case it exits with a non-zero exit code.
+If \fB-f\fR is not specified in the first form then
+\fB-s\fR must be specified.
+.TP
+\fB-s\fR
+Send three \fBsolicitation\fR messages initially
 to quickly discover
+the routers when the system is booted.
+When \fB-s\fR is specified \fBrdisc\fR
+exits with a non-zero exit code if it can not find any routers.
+This can be overridden with the \fB-f\fR option.
+.TP
+\fB-t\fR
+Test mode. Do not go to background.
+.TP
+\fB-v\fR
+Be verbose i.e. send lots of debugging messages to syslog.
+.TP
+\fB-V\fR

+Print version and exit.
+.SH "HISTORY"
+.PP
+This program was developed by Sun Microsystems (see copyright
+notice in source file). It was ported to Linux by
+Alexey Kuznetsov
+<kuznet@ms2.inr.ac.ru>.
+It is now maintained by
+YOSHIFUJI Hideaki
+<yoshfuji@skbuff.net>.
+.SH "SEE ALSO"
+.PP
+\fBicmp\fR(7),
+\fBinet\fR(7),
+\fBping\fR(8).
+.SH "REFERENCES"
+.PP
+Deering, S.E.,ed "ICMP Router Discovery Messages",
+RFC1256, Network Information Center, SRI International,
+Menlo Park, Calif., September 1991.
+.SH "SECURITY"
+.PP
+\fBrdisc\fR requires CAP_NET_RAWIO to listen
+and send ICMP messages and capability CAP_NET_ADMIN
+to update routing
 tables.
+.SH "AVAILABILITY"
+.PP
+\fBrdisc\fR is part of \fIiputils\fR package
+and the latest versions are available in source form at
+http://www.skbuff.net/iputils/iputils-current.tar.bz2.
diff -urN iputils-20070202/doc/tftpd.8 iputils-20070202-man/doc/tftpd.8
--- iputils-20070202/doc/tftpd.8 1969-12-31 16:00:00.000000000 -0800
+++ iputils-20070202-man/doc/tftpd.8 2007-06-04 08:43:33.000000000 -0700
@@ -0,0 +1,85 @@
+.\" This manpage has been automatically generated by docbook2man
+.\" from a DocBook document. This tool can be found at:
+.\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
+.\" Please send any bug reports, improvements, comments, patches,
+.\" etc. to Steve Cheng <steve@ggi-project.org>.
+.TH "TFTPD" "8" "04 June 2007" "iputils-070202" "System Manager's Manual: iputils"
+.SH NAME
+tftpd \- Trivial File Transfer Protocol server
+.SH SYNOPSIS
+
+\fBtftpd\fR \fB\fIdirectory\fB\fR
+
+.SH "DESCRIPTION"

+.PP
+\fBtftpd\fR is a server which supports the DARPA
+Trivial
File Transfer Protocol
+(RFC1350).
+The TFTP server is started
+by \fBinetd\fR(8).
+.PP
+\fIdirectory\fR is required argument; if it is not given
+\fBtftpd\fR aborts. This path is prepended to any file name requested
+via TFTP protocol, effectively chrooting \fBtftpd\fR to this directory.
+File names are validated not to escape out of this directory, however
+administrator may configure such escape using symbolic links.
+.PP
+It is in difference of variants of \fBtftpd\fR usually distributed
+with unix-like systems, which take a list of directories and match
+file names to start from one of given prefixes or to some random
+default, when no arguments were given. There are two reasons not to
+behave in this way: first, it is inconvenient, clients are not expected
+to know something about layout of filesystem on server host.
+And second, TFTP protocol is not a tool for browsing of server's filesystem,
+it is just an agent allowing to boot dumb clients.
+.PP
+In the case when \fBtftpd\fR
is used together with
+\fBrarpd\fR(8),
+tftp directories in these services should coincide and it is expected
+that each client booted via TFTP has boot image corresponding
+its IP address with an architecture suffix following Sun Microsystems
+conventions. See
+\fBrarpd\fR(8)
+for more details.
+.SH "SECURITY"
+.PP
+TFTP protocol does not provide any authentication.
+Due to this capital flaw \fBtftpd\fR is not able to restrict
+access to files and will allow only publically readable
+files to be accessed. Files may be written only if they already
+exist and are publically writable.
+.PP
+Impact is evident, directory exported via TFTP \fBmust not\fR
+contain sensitive information of any kind, everyone is allowed
+to read it as soon as a client is allowed. Boot images do not contain
+such information as rule, however you should think twice before
+publishing f.e. Cisco IOS config files via TFTP, they contain
+\fBunencrypted\fR passwords and may contain some information
+about the

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 network, which you were not going to make public.
+.PP
+The \fBtftpd\fR server should be executed by \fBinetd\fR
+with dropped root privileges, namely with a user ID giving minimal
+access to files published in tftp directory. If it is executed
+as superuser occasionally, \fBtftpd\fR drops its UID and GID
+to 65534, which is most likely not the thing which you expect.
+However, this is not very essential; remember, only files accessible
+for everyone can be read or written via TFTP.
+.SH "SEE ALSO"
+.PP
+\fBrarpd\fR(8),
+\fBtftp\fR(1),
+\fBinetd\fR(8).
+.SH "HISTORY"
+.PP
+The \fBtftpd\fR command appeared in 4.2BSD. The source in iputils
+is cleaned up both syntactically (ANSIized) and semantically (UDP socket IO).
+.PP
+It is distributed with iputils mostly as good demo of an interesting feature
+(MSG_CONFIRM) allowing to boot long images by dumb clients
+not answering ARP requests until they are finally booted.
+However, this is full functional and can be used in production.
+.SH
 "AVAILABILITY"
+.PP
+\fBtftpd\fR is part of \fIiputils\fR package
+and the latest versions are  available in source form at
+http://www.skbuff.net/iputils/iputils-current.tar.bz2.
diff -urN iputils-20070202/doc/tracepath.8 iputils-20070202-man/doc/tracepath.8
--- iputils-20070202/doc/tracepath.8 1969-12-31 16:00:00.000000000 -0800
+++ iputils-20070202-man/doc/tracepath.8 2007-06-04 08:43:35.000000000 -0700
@@ -0,0 +1,86 @@
+.\" This manpage has been automatically generated by docbook2man
+.\" from a DocBook document.  This tool can be found at:
+.\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
+.\" Please send any bug reports, improvements, comments, patches,
+.\" etc. to Steve Cheng <steve@ggi-project.org>.
+.TH "TRACEPATH" "8" "04 June 2007" "iputils-070202" "System Manager's Manual: iputils"
+.SH NAME
+tracepath, tracepath6 \- traces path to a network host discovering MTU along this path
+.SH SYNOPSIS
+
+\fBtracepath\fR [\fB-n\fR] \fB\fIdestination\fB\fR[\fB/\fIport\fB\fR]
+
+.SH
 "DESCRIPTION"
+.PP
```

+It traces path to \fIdestination\fR discovering MTU along this path.
+It uses UDP port \fIport\fR or some random port.
+It is similar to \fBtraceroute\fR, only does not not require superuser
+privileges and has no fancy options.
+.PP
+\fBtracepath6\fR is good replacement for \fBtraceroute6\fR
+and classic example of application of Linux error queues.
+The situation with \fBtracepath\fR is worse, because commercial
+IP routers do not return enough information in icmp error messages.
+Probably, it will change, when they will be updated.
+For now it uses Van Jacobson's trick, sweeping a range
+of UDP ports to maintain trace history.
+.SH "OUTPUT"
+.PP
+
+.nf
+root@mops:~ # tracepath6 3ffe:2400:0:109::2
+ 1?: [LOCALHOST]   pmtu 1500
+ 1: dust.inr.ac.ru   0.411ms
+ 2: dust.inr.ac.ru   asymm 1   0.390ms pmtu 1480
+ 2: 3ffe:2400:0:109::2   463.514ms reached
+   Resume: pmtu 1480 hops 2 back 2
+.fi
+.PP
+The
 first column shows TTL of the probe, followed by colon.
+Usually value of TTL is obtained from reply from network,
+but sometimes reply does not contain necessary information and
+we have to guess it. In this case the number is followed by ?.
+.PP
+The second column shows the network hop, which replied to the probe.
+It is either address of router or word [LOCALHOST], if
+the probe was not sent to the network.
+.PP
+The rest of line shows miscellaneous information about path to
+the correspinding hetwork hop. As rule it contains value of RTT.
+Additionally, it can show Path MTU, when it changes.
+If the path is asymmetric
+or the probe finishes before it reach prescribed hop, difference
+between number of hops in forward and backward direction is shown
+folloing keyword async. This information is not reliable.
+F.e. the third line shows asymmetry of 1, it is because the first probe
+with TTL of 2 was rejected at the first hop due to Path MTU Discovery.
+.PP
+Te last line summarizes
 information about all the path to the destination,
+it shows detected Path MTU, amount of hops to the destination and our
+guess about amount of hops from the destination to us, which can be

+different when the path is asymmetric.
+.SH "SEE ALSO"
+.PP
+\fBtraceroute\fR(8),
+\fBtraceroute6\fR(8),
+\fBping\fR(8).
+.SH "AUTHOR"
+.PP
+\fBtracepath\fR was written by
+Alexey Kuznetsov
+<kuznet@ms2.inr.ac.ru>.
+.SH "SECURITY"
+.PP
+No security issues.
+.PP
+This lapidary deserves to be elaborated.
+\fBtracepath\fR is not a privileged program, unlike
+\fBtraceroute\fR, \fBping\fR and other beasts of this kind.
+\fBtracepath\fR may be executed by everyone who has some access
+to network, enough to send UDP datagrams to investigated destination
+using given port.
+.SH "AVAILABILITY"
+.PP
+\fBtracepath\fR is part of \fIiputils\fR package
+and the latest versions are available in source form at
+http://www.skbuff.net/iputils/iputils-current.tar.bz2.
diff -urN iputils-20070202/doc/traceroute6.8
 iputils-20070202-man/doc/traceroute6.8
--- iputils-20070202/doc/traceroute6.8 1969-12-31 16:00:00.000000000 -0800
+++ iputils-20070202-man/doc/traceroute6.8 2007-06-04 08:43:35.000000000 -0700
@@ -0,0 +1,42 @@
+.\" This manpage has been automatically generated by docbook2man
+.\" from a DocBook document. This tool can be found at:
+.\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
+.\" Please send any bug reports, improvements, comments, patches,
+.\" etc. to Steve Cheng <steve@ggi-project.org>.
+.TH "TRACEROUTE6" "8" "04 June 2007" "iputils-070202" "System Manager's Manual: iputils"
+.SH NAME
+traceroute6 \- traces path to a network host
+.SH SYNOPSIS
+
+\fBtraceroute6\fR [\fB-dnrvV\fR] [\fB-i \fIinterface\fB\fR] [\fB-m \fImax_ttl\fB\fR] [\fB-p \fIport\fB\fR] [\fB-q
\fImax_probes\fB\fR] [\fB-s \fIsource\fB\fR] [\fB-w \fIwait time\fB\fR] \fB\fIdestination\fB\fR [\fB\fIsize\fB\fR]
+
+.SH "DESCRIPTION"
+.PP
+Description can be found in
+\fBtraceroute\fR(8),

+all the references
 to IP replaced to IPv6. It is needless to copy
+the description from there.
+.SH "SEE ALSO"
+.PP
+\fBtraceroute\fR(8),
+\fBtracepath\fR(8),
+\fBping\fR(8).
+.SH "HISTORY"
+.PP
+This program has long history. Author of \fBtraceroute\fR
+is Van Jacobson and it first appeared in 1988. This clone is
+based on a port of \fBtraceroute\fR to IPv6 published
+in NRL IPv6 distribution in 1996. In turn, it was ported
+to Linux by Pedro Roque. After this it was kept in sync by
+Alexey Kuznetsov
+<kuznet@ms2.inr.ac.ru>. And eventually entered
+\fBiputils\fR package.
+.SH "SECURITY"
+.PP
+\fBtracepath6\fR requires CAP_NET_RAWIO capability
+to be executed. It is safe to be used as set-uid root.
+.SH "AVAILABILITY"
+.PP
+\fBtraceroute6\fR is part of \fIiputils\fR package
+and the latest versions are available in source form at
+http://www.skbuff.net/iputils/iputils-current.tar.bz2.

Found in path(s):
* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202-man.diff
No license file was found, but licenses were detected in source scan.

/*
* tracepath.c
*
* 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.
*
* Authors: Alexey Kuznetsov, <kuznet@ms2.inr.ac.ru>
*/

Found in path(s):
* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/tracepath.c
No license file was found, but licenses were detected in source scan.

License: BSD

Found in path(s):
* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/iputils.spec
No license file was found, but licenses were detected in source scan.

=head1 NAME

docbook2man-spec - convert DocBook RefEntries to Unix manpages

=head1 SYNOPSIS

The SGMLSpm package from CPAN. This contains the sgmlspl script which
is used to grok this file. Use it like this:

nsgmls some-docbook-document.sgml | sgmlspl docbook2man-spec.pl

=head1 DESCRIPTION

This is a sgmlspl spec file that produces Unix-style
manpages from RefEntry markup.

See the accompanying RefEntry man page for 'plain new' documentation. :)

=head1 LIMITATIONS

Trying docbook2man on non-DocBook or non-conformant SGML results in
undefined behavior. :-)

This program is a slow, dodgy Perl script.

This program does not come close to supporting all the possible markup
in DocBook, and will produce wrong output in some cases with supported
markup.

=head1 TODO

Add new element handling and fix existing handling. Be robust.
Produce cleanest, readable man output as possible (unlike some
other converters). Follow
 Linux man(7) convention.
If this results in added logic in this script,
that's okay. The code should still be reasonably organized.

Make it faster. If Perl sucks port it to another language.

=head1 COPYRIGHT

Copyright (C) 1998-1999 Steve Cheng <steve@ggi-project.org>

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, or (at your option) any later
version.

You should have received a copy of the GNU General Public License along with
this program; see the file COPYING. If not, please write to the Free
Software Foundation, 675 Mass Ave, Cambridge, MA 02139, USA.

=cut

```
# $Id: docbook2man-spec.pl,v 1.1 2000/07/21 20:22:30 rosalia Exp $

use SGMLS;   # Use the SGMLS package.
use SGMLS::Output;  # Use stack-based output.
use SGMLS::Refs;

##############################################################################
# SGMLSPL script produced automatically by
 the script sgmlspl.pl
#
# Document Type: any, but processes only RefEntries
# Edited by: me :)
##############################################################################

$write_manpages = 0;
$blank_xrefs = 0;

sgml('start', sub {
 push_output('nul');
 $raw_cdata = 1;   # Makes it a bit faster.

 # Links file
 open(LINKSFILE, ">manpage.links");

 $Refs = new SGMLS::Refs("manpage.refs");
});
sgml('end', sub {
 close(LINKSFILE);
 if($blank_xrefs) {
  print STDERR "Warning: output contains unresolved XRefs\n";
 }
});
```

```
#############################################################################
#
# Output helpers
#
#############################################################################

# Our own version of sgml() and output() to allow simple string output
# to play well with roff's stupid whitespace rules.

sub man_sgml
{
 if(ref($_[1]) eq 'CODE') {
  return &sgml;
 }

 my $s = $_[1];

 $s =~ s/\\/\\\\/g;
 $s =~ s/'/\\'/g;

 # \n at the beginning means start at beginning of line
 if($s
 =~ s/^\n//) {
  $sub = 'sub { output "\n" unless $newline_last++; ';
  if($s eq '') {
   sgml($_[0], eval('sub { output "\n" unless $newline_last++; }'));
  } elsif($s =~ /\n$/) {
   sgml($_[0], eval("sub { output \"\\n\" unless \$newline_last++; output '$s'; }"));
  } else {
   sgml($_[0], eval("sub { output \"\\n\" unless \$newline_last; output '$s'; \$newline_last = 0; }"));
  }
 } else {
  if($s =~ /\n$/) {
   sgml($_[0], eval("sub { output '$s'; \$newline_last = 1; }"));
  } else {
   sgml($_[0], eval("sub { output '$s'; \$newline_last = 0; }"));
  }
 }
}

sub man_output
{
 $_ = shift;
 if(s/^\n//) {
  output "\n" unless $newline_last++;
 }
```

```
 return if $_ eq '';

 output $_;

 if(@_) {
  output @_;
  $newline_last = (pop(@_) =~ /\n$/);
 } else {
  $newline_last = ($_ =~ /\n$/)
 }
}

# Fold lines into one, quote some characters
sub fold_string
{
 $_ = shift;

 s/\\/\\\\/g;
 s/"/\\&"/g;

 # Change tabs to spaces
 tr/\t\n/  /;

 # Trim whitespace from beginning and end.
 s/^ +//;
 s/
 +$//;

 return $_;
}

sub save_cdata()
{
 $raw_cdata++;
 push_output('string');
}

sub bold_on()
{
 # If the last font is also bold, don't change anything.
 # Basically this is to just get more readable man output.
 if($fontstack[$#fontstack] ne 'bold') {
  if(!$raw_cdata) {
   output '\fB';
   $newline_last = 0;
  }
 }
 push(@fontstack, 'bold');
```

```
}

sub italic_on()
{
 # If the last font is also italic, don't change anything.
 if($fontstack[$#fontstack] ne 'italic') {
  if(!$raw_cdata) {
   output '\fI';
   $newline_last = 0;
  }
 }
 push(@fontstack, 'italic');
}

sub font_off()
{
 my $thisfont = pop(@fontstack);
 my $lastfont = $fontstack[$#fontstack];

 # Only output font change if it is different
 if($thisfont ne $lastfont) {
  if($raw_cdata)   { return; }
  elsif($lastfont eq 'bold')  { output '\fB'; }
  elsif($lastfont eq 'italic') { output '\fI'; }
  else    { output '\fR'; }

  $newline_last = 0;
 }
}




###############################################################################
#
#
 Manpage management
#
###############################################################################

sgml('<REFENTRY>', sub {
 # This will be overwritten at end of REFMETA, when we know the name of the page.
 pop_output();

 $write_manpages = 1;  # Currently writing manpage.
```

```
$nocollapse_whitespace = 0; # Current whitespace collapse counter.
$newline_last = 1;  # At beginning of line?
 # Just a bit of warning, you will see this variable manipulated
 # manually a lot.  It makes the code harder to follow but it
 # saves you from having to worry about collapsing at the end of
 # parse, stopping at verbatims, etc.
$raw_cdata = 0;                # Instructs certain output functions to
   # leave CDATA alone, so we can assign
   # it to a string and process it, etc.
@fontstack = ();  # Fonts being activated.

$manpage_title = '';  # Needed for indexing.
$manpage_sect = '';
@manpage_names = ();

$manpage_misc = '';

$list_nestlevel = 0;  # Indent certain nested
content.
});
sgml('</REFENTRY>', sub {
 if(!$newline_last) {
  output "\n";
 }

 $write_manpages = 0;
 $raw_cdata = 1;
 push_output('nul');
});

sgml('</REFMETA>', sub {
 push_output('file', "$manpage_title.$manpage_sect");

 output <<_END_BANNER;
.\\" This manpage has been automatically generated by docbook2man
.\\" from a DocBook document.  This tool can be found at:
.\\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
.\\" Please send any bug reports, improvements, comments, patches,
.\\" etc. to Steve Cheng <steve\@ggi-project.org>.
_END_BANNER

 my $manpage_date = `date "+%d %B %Y"`;

 output '.TH "';

 # If the title is not mixed-case, convention says to
 # uppercase the whole title.  (The canonical title is
 # lowercase.)
```

```
 if($manpage_title =~ /[A-Z]/) {
  output fold_string($manpage_title);
 } else {
  output uc(fold_string($manpage_title));
 }

 output  '" "', fold_string($manpage_sect),
  '" "', fold_string(`date "+%d %B %Y"`),
  '" "', $manpage_misc,
  '" "',
 $manpage_manual,
  "\"\n";

 $newline_last = 1;

 # References to this RefEntry.
 my $id = $_[0]->parent->attribute('ID')->value;
 if($id ne '') {
  # The 'package name' part of the section should
  # not be used when citing it.
  my ($sectnum) = ($manpage_sect =~ /([0-9]*)/);

  if($_[0]->parent->attribute('XREFLABEL')->value eq '') {
   $Refs->put("refentry:$id", "$manpage_title($sectnum)");
  } else {
   $Refs->put("refentry:$id",
    $_[0]->parent->attribute('XREFLABEL')->value .
    "($sectnum)");
  }
 }
});

sgml('<REFENTRYTITLE>', sub {
 if($_[0]->in('REFMETA')) {
  save_cdata();
 } else {
  # Manpage citations are in bold.
  bold_on();
 }
});
sgml('</REFENTRYTITLE>', sub {
 if($_[0]->in('REFMETA')) {
  $raw_cdata--;
  $manpage_title = pop_output();
 }
 else { font_off(); }
});
```

```
sgml('<MANVOLNUM>', sub {
 if($_[0]->in('REFMETA')) {
  save_cdata();
 } else {
  # Manpage citations use ().
  output '(';
 }
});
sgml('</MANVOLNUM>', sub {
 if($_[0]->in('REFMETA')) {
  $raw_cdata--;
  $manpage_sect
 = pop_output();
 }
 else { output ')' }
});

sgml('<REFMISCINFO>', \&save_cdata);
sgml('</REFMISCINFO>', sub {
 $raw_cdata--;
 $manpage_misc = fold_string(pop_output());
});


# NAME section
man_sgml('<REFNAMEDIV>', "\n.SH NAME\n");

sgml('<REFNAME>', \&save_cdata);
sgml('</REFNAME>', sub {
 $raw_cdata--;
 push(@manpage_names, pop_output());
});

sgml('<REFPURPOSE>', \&save_cdata);
sgml('</REFPURPOSE>', sub {
 $raw_cdata--;
 my $manpage_purpose = fold_string(pop_output());

 for(my $i = 0; $i < $#manpage_names; $i++) {
  output fold_string($manpage_names[$i]), ', ';
 }

 output fold_string($manpage_names[$#manpage_names]);
 output " \\- $manpage_purpose\n";

 $newline_last = 1;

 foreach(@manpage_names) {
```

```
  # Don't link to itself
  if($_ ne $manpage_title) {
   print LINKSFILE "$manpage_title.$manpage_sect $_.$manpage_sect\n";
  }
 }
});

man_sgml('<REFCLASS>', "\n.sp\n");

#RefDescriptor




###############################################################################
#
#
 SYNOPSIS section and synopses
#
###############################################################################

man_sgml('<REFSYNOPSISDIV>', "\n.SH SYNOPSIS\n");
man_sgml('</REFSYNOPSISDIV>', "\n");

## FIXME! Must be made into block elements!!
#sgml('<FUNCSYNOPSIS>', \&bold_on);
#sgml('</FUNCSYNOPSIS>', \&font_off);
#sgml('<CMDSYNOPSIS>', \&bold_on);
#sgml('</CMDSYNOPSIS>', \&font_off);

man_sgml('<FUNCSYNOPSIS>', sub {
 man_output("\n.sp\n");
 bold_on();
});
man_sgml('</FUNCSYNOPSIS>', sub {
 font_off();
 man_output("\n");
});

man_sgml('<CMDSYNOPSIS>', "\n\n");
man_sgml('</CMDSYNOPSIS>', "\n\n");

man_sgml('<FUNCPROTOTYPE>', "\n.sp\n");

# Arguments to functions.  This is C convention.
man_sgml('<PARAMDEF>', '(');
man_sgml('</PARAMDEF>', ");\n");
```

```
man_sgml('<VOID>', "(void);\n");



sub arg_start
{
 # my $choice = $_[0]->attribute('CHOICE')->value;

 # The content model for CmdSynopsis doesn't include #PCDATA,
 # so we won't see any of the whitespace in the source file,
 #
 so we have to add it after each component.
 output ' ';

 if($_[0]->attribute('CHOICE')->value =~ /opt/i) {
  output '[ ';
 }
 bold_on();
}
sub arg_end
{
 font_off();
 if($_[0]->attribute('REP')->value =~ /^Repeat/i) {
  italic_on();
  output ' ...';
  font_off();
 }
 if($_[0]->attribute('CHOICE')->value =~ /opt/i) {
  output '] ';
 }
}

sgml('<ARG>', \&arg_start);
sgml('</ARG>', \&arg_end);
sgml('<GROUP>', \&arg_start);
sgml('</GROUP>', \&arg_end);

sgml('<OPTION>', \&bold_on);
sgml('</OPTION>', \&font_off);

# FIXME: This is one _blank_ line.
man_sgml('<SBR>', "\n\n");



#############################################################################
#
# General sections
#
```

```
##############################################################################

# The name of the section is handled by TITLE.  This just sets
# up the roff markup.
man_sgml('<REFSECT1>', "\n.SH ");
man_sgml('<REFSECT2>', "\n.SS ");
man_sgml('<REFSECT3>', "\n.SS ");


##############################################################################
#
#
 Titles, metadata.
#
##############################################################################

sgml('<TITLE>', sub {
 if($_[0]->in('REFERENCE') or $_[0]->in('BOOK')) {
  $write_manpages = 1;
 }
 save_cdata();
});
sgml('</TITLE>', sub {
 my $title = fold_string(pop_output());
 $raw_cdata--;

 if($_[0]->in('REFERENCE') or $_[0]->in('BOOK')) {
  # We use TITLE of enclosing Reference or Book as manual name
  $manpage_manual = $title;
  $write_manpages = 0;
 }
 elsif(exists $_[0]->parent->ext->{'title'}) {
  # By far the easiest case.  Just fold the string as
  # above, and then set the parent element's variable.
  $_[0]->parent->ext->{'title'} = $title;
 }
 else {
  # If the parent element's handlers are lazy,
  # output the folded string for them :)
  # We assume they want uppercase and a newline.
  output '', uc($title), "\"\n";
  $newline_last = 1;
 }
});

sgml('<ATTRIBUTION>', sub { push_output('string') });
sgml('</ATTRIBUTION>', sub { $_[0]->parent->ext->{'attribution'}
```

```
 = pop_output(); });


# IGNORE.
sgml('<DOCINFO>', sub { push_output('nul'); });
sgml('</DOCINFO>', sub { pop_output(); });
sgml('<REFSECT1INFO>', sub { push_output('nul'); });
sgml('</REFSECT1INFO>', sub { pop_output(); });
sgml('<REFSECT2INFO>', sub { push_output('nul'); });
sgml('</REFSECT2INFO>', sub { pop_output(); });
sgml('<REFSECT3INFO>', sub { push_output('nul'); });
sgml('</REFSECT3INFO>', sub { pop_output(); });

sgml('<INDEXTERM>', sub { push_output('nul'); });
sgml('</INDEXTERM>', sub { pop_output(); });


##########################################################################
#
# Set bold on enclosed content
#
##########################################################################

sgml('<APPLICATION>', \&bold_on); sgml('</APPLICATION>', \&font_off);

sgml('<CLASSNAME>', \&bold_on);  sgml('</CLASSNAME>', \&font_off);
sgml('<STRUCTNANE>', \&bold_on); sgml('</STRUCTNAME>', \&font_off);
sgml('<STRUCTFIELD>', \&bold_on); sgml('</STRUCTFIELD>', \&font_off);
sgml('<SYMBOL>',
 \&bold_on);  sgml('</SYMBOL>', \&font_off);
sgml('<TYPE>', \&bold_on);  sgml('</TYPE>', \&font_off);

sgml('<ENVAR>', \&bold_on); sgml('</ENVAR>', \&font_off);

sgml('<FUNCTION>', \&bold_on); sgml('</FUNCTION>', \&font_off);

sgml('<EMPHASIS>', \&bold_on); sgml('</EMPHASIS>', \&font_off);

sgml('<ERRORNAME>', \&bold_on); sgml('</ERRORNAME>', \&font_off);
# ERRORTYPE

sgml('<COMMAND>', \&bold_on); sgml('</COMMAND>', \&font_off);

sgml('<GUIBUTTON>', \&bold_on); sgml('</GUIBUTTON>', \&font_off);
sgml('<GUIICON>', \&bold_on); sgml('</GUIICON>', \&font_off);
# GUILABEL
# GUIMENU
# GUIMENUITEM
```

```
# GUISUBMENU
# MENUCHOICE
# MOUSEBUTTON

sgml('<ACCEL>', \&bold_on); sgml('</ACCEL>', \&font_off);
sgml('<KEYCAP>', \&bold_on); sgml('</KEYCAP>', \&font_off);
sgml('<KEYSYM>', \&bold_on); sgml('</KEYSYM>', \&font_off);
# KEYCODE
# KEYCOMBO
# SHORTCUT

sgml('<USERINPUT>', \&bold_on); sgml('</USERINPUT>', \&font_off);

sgml('<INTERFACEDEFINITION>', \&bold_on);
sgml('</INTERFACEDEFINITION>', \&font_off);

#
 May need to look at the CLASS
sgml('<SYSTEMITEM>', \&bold_on);
sgml('</SYSTEMITEM>', \&font_off);




##############################################################################
#
# Set italic on enclosed content
#
##############################################################################

sgml('<FIRSTTERM>', \&italic_on); sgml('</FIRSTTERM>', \&font_off);

sgml('<FILENAME>', \&italic_on); sgml('</FILENAME>', \&font_off);
sgml('<PARAMETER>', \&italic_on); sgml('</PARAMETER>', \&font_off);
sgml('<PROPERTY>', \&italic_on); sgml('</PROPERTY>', \&font_off);

sgml('<REPLACEABLE>', sub {
 italic_on();
 if($_[0]->in('TOKEN')) {
  # When tokenizing, follow more 'intuitive' convention
  output "<";
 }
});
sgml('</REPLACEABLE>', sub {
 if($_[0]->in('TOKEN')) {
  output ">";
 }
```

```
 font_off();
});

sgml('<CITETITLE>', \&italic_on); sgml('</CITETITLE>', \&font_off);
sgml('<FOREIGNPHRASE>', \&italic_on); sgml('</FOREIGNPHRASE>', \&font_off);

sgml('<LINEANNOTATION>', \&italic_on); sgml('</LINEANNOTATION>',
 \&font_off);




##############################################################################
#
# Other 'inline' elements
#
##############################################################################

man_sgml('<EMAIL>', '<');
man_sgml('</EMAIL>', '>');
man_sgml('<OPTIONAL>', '[');
man_sgml('</OPTIONAL>', ']');

man_sgml('</TRADEMARK>', "\\u\\s-2TM\\s+2\\d");

man_sgml('<COMMENT>', "[Comment: ");
man_sgml('</COMMENT>', "]");

man_sgml('<QUOTE>', "``");
man_sgml('</QUOTE>', "''");

#man_sgml('<LITERAL>', "");
#man_sgml('</LITERAL>', "");

# No special presentation:

# AUTHOR
# AUTHORINITIALS

# ABBREV
# ACTION
# ACRONYM
# ALT
# CITATION
# PHRASE
# QUOTE
```

```
# WORDASWORD

# COMPUTEROUTPUT
# MARKUP
# PROMPT
# RETURNVALUE
# SGMLTAG
# TOKEN

# DATABASE
# HARDWARE
# INTERFACE
# MEDIALABEL

# There doesn't seem to be a good way to represent LITERAL in -man



##############################################################################
#
# Paragraph and paragraph-like elements
#
##############################################################################

sub
 para_start {
 output "\n" unless $newline_last++;

 # In lists, etc., don't start paragraph with .PP since
 # the indentation will be gone.

 if($_[0]->parent->ext->{'nobreak'}==1) {
  # Usually this is the FIRST element of
  # a hanging tag, so we MUST not do a full
  # paragraph break.
  $_[0]->parent->ext->{'nobreak'} = 2;
 } elsif($_[0]->parent->ext->{'nobreak'}==2) {
  # Usually these are the NEXT elements of
  # a hanging tag.  If we break using a blank
  # line, we're okay.
  output "\n";
 } else {
  # Normal case. (For indented blocks too, at least
  # -man isn't so braindead in this area.)
  output ".PP\n";
 }
}
# Actually applies to a few other block elements as well
```

```
sub para_end {
 output "\n" unless $newline_last++;
}

sgml('<PARA>', \&para_start);
sgml('</PARA>', \&para_end);
sgml('<SIMPARA>', \&para_start);
sgml('</SIMPARA>', \&para_end);

# Nothing special, except maybe FIXME set nobreak.
sgml('<INFORMALEXAMPLE>',
 \&para_start);
sgml('</INFORMALEXAMPLE>', \&para_end);




##############################################################################
#
# Blocks using SS sections
#
##############################################################################

# FIXME: We need to consider the effects of SS
# in a hanging tag :(

# Complete with the optional-title dilemma (again).
sgml('<ABSTRACT>', sub {
 $_[0]->ext->{'title'} = 'ABSTRACT';
 output "\n" unless $newline_last++;
 push_output('string');
});
sgml('</ABSTRACT>', sub {
 my $content = pop_output();

 # As ABSTRACT is never on the same level as RefSect1,
 # this leaves us with only .SS in terms of -man macros.
 output ".SS \"", uc($_[0]->ext->{'title'}), "\"\n";

 output $content;
 output "\n" unless $newline_last++;
});

# Ah, I needed a break.  Example always has a title.
man_sgml('<EXAMPLE>', "\n.SS ");
sgml('</EXAMPLE>', \&para_end);
```

```
# Same with sidebar.
man_sgml('<SIDEBAR>', "\n.SS ");
sgml('</SIDEBAR>', \&para_end);

# NO title.
man_sgml('<HIGHLIGHTS>',
 "\n.SS HIGHLIGHTS\n");
sgml('</HIGHLIGHTS>', \&para_end);




##############################################################################
#
# Indented 'Block' elements
#
##############################################################################

sub indent_block_start
{
 output "\n" unless $newline_last++;
 output ".sp\n.RS\n";
}
sub indent_block_end
{
 output "\n" unless $newline_last++;
 output ".RE\n";
}

# This element is almost like an admonition (below),
# only the default title is blank :)

sgml('<BLOCKQUOTE>', sub {
 $_[0]->ext->{'title'} = '';
 output "\n" unless $newline_last++;
 push_output('string');
});
sgml('</BLOCKQUOTE>', sub {
 my $content = pop_output();

 indent_block_start();

 if($_[0]->ext->{'title'}) {
  output ".B \"", $_[0]->ext->{'title'}, ":\"\n";
 }

 output $content;
```

```
 if($_[0]->ext->{'attribution'}) {
  output "\n" unless $newline_last++;
  # One place where roff's space-sensitivity makes sense :)
  output "\n               -- ";
  output
 $_[0]->ext->{'attribution'} . "\n";
 }

 indent_block_end();
});

# Set off admonitions from the rest of the text by indenting.
# FIXME: Need to check if this works inside paragraphs, not enclosing them.
sub admonition_end {
 my $content = pop_output();

 indent_block_start();

 # When the admonition is only one paragraph,
 # it looks nicer if the title was inline.
 my $num_para;
 while ($content =~ /^\.PP/gm) { $num_para++ }
 if($num_para==1) {
  $content =~ s/^\.PP\n//;
 }

 output ".B \"" . $_[0]->ext->{'title'} . ":\"\n";
 output $content;

 indent_block_end();
}

sgml('<NOTE>', sub {
 # We can't see right now whether or not there is a TITLE
 # element, so we have to save the output now and add it back
 # at the end of this admonition.
 $_[0]->ext->{'title'} = 'Note';

 # Although admonition_end's indent_block_start will do this,
 # we need to synchronize the output _now_
 output "\n" unless $newline_last++;

 push_output('string');
});
sgml('</NOTE>', \&admonition_end);

#
```

```
 Same as above.
sgml('<WARNING>', sub {
 $_[0]->ext->{'title'} = 'Warning';
 output "\n" unless $newline_last++;
 push_output('string');
});
sgml('</WARNING>', \&admonition_end);

sgml('<TIP>', sub {
 $_[0]->ext->{'title'} = 'Tip';
 output "\n" unless $newline_last++;
 push_output('string');
});
sgml('</TIP>', \&admonition_end);
sgml('<CAUTION>', sub {
 $_[0]->ext->{'title'} = 'Caution';
 output "\n" unless $newline_last++;
 push_output('string');
});
sgml('</CAUTION>', \&admonition_end);

sgml('<IMPORTANT>', sub {
 $_[0]->ext->{'title'} = 'Important';
 output "\n" unless $newline_last++;
 push_output('string');
});
sgml('</IMPORTANT>', \&admonition_end);









##############################################################################
#
# Verbatim displays.
#
##############################################################################

sub verbatim_start {
 output "\n" unless $newline_last++;
```

```
 if($_[0]->parent->ext->{'nobreak'}==1) {
  # Usually this is the FIRST element of
  #
 a hanging tag, so we MUST not do a full
  # paragraph break.
  $_[0]->parent->ext->{'nobreak'} = 2;
 } else {
  output "\n";
 }

 output(".nf\n") unless $nocollapse_whitespace++;
}

sub verbatim_end {
 output "\n" unless $newline_last++;
 output(".fi\n") unless --$nocollapse_whitespace;
}

sgml('<PROGRAMLISTING>', \&verbatim_start);
sgml('</PROGRAMLISTING>', \&verbatim_end);

sgml('<SCREEN>', \&verbatim_start);
sgml('</SCREEN>', \&verbatim_end);

sgml('<LITERALLAYOUT>', \&verbatim_start);
sgml('</LITERALLAYOUT>', \&verbatim_end);

#sgml('<SYNOPSIS>', sub {
# if($_[0]->attribute('FORMAT')->value =~ /linespecific/i) {
#  &verbatim_start;
# } else {
#  roffcmd("");
# }
#});
#
#sgml('</SYNOPSIS>', sub {
# if($_[0]->attribute('FORMAT')->value =~ /linespecific/i) {
#  &verbatim_end;
# }
# else {
#  roffcmd("");# not sure about this.
# }
#});
sgml('<SYNOPSIS>', \&verbatim_start);
sgml('</SYNOPSIS>', \&verbatim_end);
```

```
#############################################################################
#
#
 Lists
#
#############################################################################

# Indent nested lists.
sub indent_list_start {
 if($list_nestlevel++) {
  output "\n" unless $newline_last++;
  output ".RS\n";
 }
}
sub indent_list_end {
 if(--$list_nestlevel) {
  output "\n" unless $newline_last++;
  output ".RE\n";
 }
}

sgml('<VARIABLELIST>', \&indent_list_start);
sgml('</VARIABLELIST>', \&indent_list_end);
sgml('<ITEMIZEDLIST>', \&indent_list_start);
sgml('</ITEMIZEDLIST>', \&indent_list_end);
sgml('<ORDEREDLIST>', sub {
 indent_list_start();
 $_[0]->ext->{'count'} = 1;
});
sgml('</ORDEREDLIST>', \&indent_list_end);

# Output content on one line, bolded.
sgml('<TERM>', sub {
 output "\n" unless $newline_last++;
 output ".TP\n";
 bold_on();
 push_output('string');
});
sgml('</TERM>', sub {
 my $term = pop_output();
 $term =~ tr/\n/ /;
 output $term;
```

```
 font_off();
 output "\n";
 $newline_last = 1;
});

sgml('<LISTITEM>', sub {
 # A bulleted list.
 if($_[0]->in('ITEMIZEDLIST'))
 {
  output "\n" unless $newline_last++;
  output ".TP 0.2i\n\\(bu\n";
 }

 # Need numbers.
 # Assume Arabic numeration for now.
 elsif($_[0]->in('ORDEREDLIST')) {
  output "\n" unless $newline_last++;
  output ".TP ", $_[0]->parent->ext->{'count'}++, ". \n";
 }

 $_[0]->ext->{'nobreak'} = 1;
});

sgml('<SIMPLELIST>', sub {
 $_[0]->ext->{'first_member'} = 1;
});

sgml('<MEMBER>', sub {
 my $parent = $_[0]->parent;

 if($parent->attribute('TYPE')->value =~ /Inline/i) {
  if($parent->ext->{'first_member'}) {
   # If this is the first member don't put any commas
   $parent->ext->{'first_member'} = 0;
  } else {
   output ", ";
  }
 } elsif($parent->attribute('TYPE')->value =~ /Vert/i) {
  output "\n" unless $newline_last++;
  output "\n";
 }
});
```

```
##############################################################################
```

```
#
# Stuff we don't know how to handle (yet)
#
#############################################################################

# Address blocks:

# Credit stuff:
#
 ACKNO
# ADDRESS
# AFFILIATION
# ARTPAGENUMS
# ATTRIBUTION
# AUTHORBLURB
# AUTHORGROUP
# OTHERCREDIT
# HONORIFIC

# Areas:
# AREA
# AREASET
# AREASPEC




#############################################################################
#
# Linkage, cross references
#
#############################################################################

# Print the URL
sgml('</ULINK>', sub {
# output ' <URL:', $_[0]->attribute('URL')->value, '>';
 $newline_last = 0;
});

# If cross reference target is a RefEntry,
# output CiteRefEntry-style references.
sgml('<XREF>', sub {
 my $id = $_[0]->attribute('LINKEND')->value;
 my $manref = $Refs->get("refentry:$id");

 if($manref) {
  my ($title, $sect) = ($manref =~ /(.*)(\(.*\))/);
```

```
 bold_on();
 output $title;
 font_off();
 output $sect;
} else {
 $blank_xrefs++ if $write_manpages;
 output "[XRef to $id]";
}

 $newline_last = 0;
});

# Anchor




###############################################################################
#
# Other handlers
#
###############################################################################

man_sgml('|[lt
   ]|', '<');
man_sgml('|[gt    ]|', '>');
man_sgml('|[amp   ]|', '&');

#
# Default handlers (uncomment these if needed).  Right now, these are set
# up to gag on any unrecognised elements, sdata, processing-instructions,
# or entities.
#
# sgml('start_element',sub { die "Unknown element: " . $_[0]->name; });
# sgml('end_element','');

# This is for weeding out and escaping certain characters.
# This looks like it's inefficient since it's done on every line, but
# in reality, SGMLSpm and sgmlspl parsing ESIS takes _much_ longer.

sgml('cdata', sub
{
 if(!$write_manpages) { return; }
 elsif($raw_cdata) { output $_[0]; return; }

 # Escape backslashes
 $_[0] =~ s/\\/\\\\/g;
```

```
 # In non-'pre'-type elements:
 if(!$nocollapse_whitespace) {
  # Change tabs to spaces
  $_[0] =~ tr/\t/ /;

  # Do not allow indents at beginning of line
  # groff chokes on that.
  if($newline_last) {
   $_[0] =~ s/^ +//;

   # If the
 line is all blank, don't do anything.
   if($_[0] eq '') { return; }

   $_[0] =~ s/^\./\\\&\./;

   # Argh... roff doesn't like ' either...
   $_[0] =~ s/^\'/\\\&\'/;
  }
 }

 $newline_last = 0;

 output $_[0];
});


# When in whitespace-collapsing mode, we disallow consecutive newlines.

sgml('re', sub
{
 if($nocollapse_whitespace || !$newline_last) {
  output "\n";
 }

 $newline_last = 1;
});

sgml('sdata',sub { die "Unknown SDATA: " . $_[0]; });
sgml('pi',sub { die "Unknown processing instruction: " . $_[0]; });
sgml('entity',sub { die "Unknown external entity: " . $_[0]->name; });
sgml('start_subdoc',sub { die "Unknown subdoc entity: " . $_[0]->name; });
sgml('end_subdoc','');
sgml('conforming','');

1;
```

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* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/doc/docbook2man-spec.pl
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```
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* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
/*
*   P I N G . C
*
 * Using the InterNet Control Message Protocol (ICMP) "ECHO" facility,
* measure round-trip-delays and packet loss across network paths.
*
* Author -
* Mike Muuss
```

* U. S. Army Ballistic Research Laboratory
* December, 1983
*
* Status -
* Public Domain. Distribution Unlimited.
* Bugs -
* More statistics could always be gathered.
* This program has to run SUID to ROOT to access the ICMP socket.
*/

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* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/ping.c
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* arping.c
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* 2 of the License, or (at your option) any later version.
*
* Authors: Alexey Kuznetsov, <kuznet@ms2.inr.ac.ru>
*/

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* rarpd.c RARP daemon.
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* as published by the Free Software Foundation; either version
* 2 of the License, or (at your option) any later version.
*
* Authors: Alexey Kuznetsov, <kuznet@ms2.inr.ac.ru>
*/

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* tracepath6.c
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* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/doc/clockdiff.sgml
* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/doc/tracepath.sgml
* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/doc/rarpd.sgml
*
/iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/doc/traceroute6.sgml
* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/doc/pg3.sgml
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--- iputils/new/LICENSE 2004-06-15 13:21:29.000000000 -0700
+++ iputils/LICENSE 2004-06-15 13:18:37.000000000 -0700
@@ -0,0 +1,49 @@
+This package was debianized by Anthony Towns <ajt@debian.org> on
+Sat, 5 Aug 2000 19:51:36 +1000.
+
+It was downloaded from ftp://ftp.inr.ac.ru/ip-routing/
+
+Upstream Author: Alexey Kuznetsov <kuznet@ms2.inr.ac.ru>
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* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils-license.patch

1.73 bash 5.2.21

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* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/InfCodes.java
* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/ZStreamException.java
* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/StaticTree.java

* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/Tree.java

1.78 zlib 1.3.1

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1.79 example2 1.0.0

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 *
* WWW: http://openbluesky.kenai.com
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```

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* /it-tidalwave-netbeans-examples-nodes-example2-1-0-0-sources-1-jar/it/tidalwave/netbeans/examples/nodes/example2/view/NodesExample2.java
* /it-tidalwave-netbeans-examples-nodes-example2-1-0-0-sources-1-jar/it/tidalwave/netbeans/examples/nodes/example2/view/HiddenFilesInItalicsDecorator.java
* /it-tidalwave-netbeans-examples-nodes-example2-1-0-0-sources-1-jar/it/tidalwave/netbeans/examples/nodes/example2/view/GenericTreePanel2.java

* /it-tidalwave-netbeans-examples-nodes-example2-1-0-0-sources-1-jar/it/tidalwave/netbeans/examples/nodes/example2/view/HiddenFilesInItalicsDisplayable.java

1.80 libpcap 1.10.5

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1.81 pyyaml 6.0.1

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1.82 open-ldap 2.6.6

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1.83 tinyproxy 1.11.1

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1.84 iperf 3.16

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 * stdio.c
```

```
 * by Mark Gates <mgates@nlanr.net>
 * and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>
 * ----------------------------------------------------------------
 * input and output numbers, converting with kilo, mega, giga
 * ---------------------------------------------------------------- */
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1.85 ftpd 6.5

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* /ftpd-1-tar-gz/ftpd/ls/ls.1
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*
* @(#)extern.h 8.2 (Berkeley) 4/4/94

*/

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/* $OpenBSD: ftpcmd.y,v 1.21 2000/06/17 19:42:18 deraadt Exp $ */
/* $NetBSD: ftpcmd.y,v 1.7 1996/04/08 19:03:11 jtc Exp $ */

/*
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*
* @(#)ftpcmd.y 8.3 (Berkeley) 4/6/94
*/

/*
* Grammar for FTP commands.

```
* See RFC 959.
*/

%{

#ifndef lint
#if 0
static char sccsid[] = "@(#)ftpcmd.y 8.3 (Berkeley) 4/6/94";
#else
static char rcsid[] = "$OpenBSD: ftpcmd.y,v 1.21 2000/06/17 19:42:18 deraadt Exp $";
#endif
#endif /* not lint */

#include <sys/param.h>
#include <sys/socket.h>
#include <sys/stat.h>

#include <netinet/in.h>
#include <arpa/ftp.h>

#include <ctype.h>
#include <errno.h>
#include <glob.h>
#include <pwd.h>
#include <setjmp.h>
#include <signal.h>
#ifdef ORIGINAL_SOURCE
#include <tzfile.h>
#endif /* ORIGINAL_SOURCE */
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <syslog.h>
#include <time.h>
#include <unistd.h>
#include <netdb.h>

#include "extern.h"

extern union sockunion data_dest;
extern int logged_in;
extern struct passwd *pw;
extern int guest;
extern int logging;
extern int type;
extern int form;
extern int debug;
extern int timeout;
```

```
extern int
 maxtimeout;
extern  int pdata;
extern char hostname[], remotehost[];
extern char proctitle[];
extern int usedefault;
extern  int transflag;
extern  char tmpline[];
extern int portcheck;
extern union sockunion his_addr;
extern int umaskchange;

off_t restart_point;

static int cmd_type;
static int cmd_form;
static int cmd_bytesz;
char cbuf[512];
char *fromname;

#ifndef ORIGINAL_SOURCE /* Originally at the end */
#define CMD 0 /* beginning of command */
#define ARGS 1 /* expect miscellaneous arguments */
#define STR1 2 /* expect SP followed by STRING */
#define STR2 3 /* expect STRING */
#define OSTR 4 /* optional SP then STRING */
#define ZSTR1 5 /* SP then optional STRING */
#define ZSTR2 6 /* optional STRING after SP */
#define SITECMD 7 /* SITE command */
#define NSTR 8 /* Number followed by a string */

struct tab {
 char *name;
 short token;
 short state;
 short implemented; /* 1 if command is implemented */
 char *help;
};

struct tab cmdtab[] = {  /* In order defined in RFC 765
 */
 { "USER", USER, STR1, 1, "<sp> username" },
 { "PASS", PASS, ZSTR1, 1, "<sp> password" },
 { "ACCT", ACCT, STR1, 0, "(specify account)" },
 { "SMNT", SMNT, ARGS, 0, "(structure mount)" },
 { "REIN", REIN, ARGS, 0, "(reinitialize server state)" },
 { "QUIT", QUIT, ARGS, 1, "(terminate service)", },
#ifdef ORIGINAL_SOURCE
```

```
 { "PORT", PORT, ARGS, 1, "<sp> b0, b1, b2, b3, b4" },
#else
 { "PORT", PORT, ARGS, 1, "<sp> b0, b1, b2, b3, b4, b5" },
 /* There are *six* bytes after a PORT command, not *five*.
  * Thanks to Quisar <quisar@ambre.net> for pointing this out
  * to me.  For some weird reason, nearly every ftp server
  * in existence seems to get this wrong...
  *  -- David Madore <david.madore@ens.fr> */
#endif
 { "LPRT", LPRT, ARGS, 1, "<sp> af, hal, h1, h2, h3,..., pal, p1, p2..." },
 { "EPRT", EPRT, STR1, 1, "<sp> |af|addr|port|" },
 { "PASV", PASV, ARGS, 1, "(set server in passive mode)" },
 { "LPSV", LPSV, ARGS, 1, "(set server in passive mode)" },
 { "EPSV", EPSV, ARGS, 1, "[<sp>
 af|ALL]" },
 { "TYPE", TYPE, ARGS, 1, "<sp> [ A | E | I | L ]" },
 { "STRU", STRU, ARGS, 1, "(specify file structure)" },
 { "MODE", MODE, ARGS, 1, "(specify transfer mode)" },
 { "RETR", RETR, STR1, 1, "<sp> file-name" },
 { "STOR", STOR, STR1, 1, "<sp> file-name" },
 { "APPE", APPE, STR1, 1, "<sp> file-name" },
 { "MLFL", MLFL, OSTR, 0, "(mail file)" },
 { "MAIL", MAIL, OSTR, 0, "(mail to user)" },
 { "MSND", MSND, OSTR, 0, "(mail send to terminal)" },
 { "MSOM", MSOM, OSTR, 0, "(mail send to terminal or mailbox)" },
 { "MSAM", MSAM, OSTR, 0, "(mail send to terminal and mailbox)" },
 { "MRSQ", MRSQ, OSTR, 0, "(mail recipient scheme question)" },
 { "MRCP", MRCP, STR1, 0, "(mail recipient)" },
 { "ALLO", ALLO, ARGS, 1, "allocate storage (vacuously)" },
 { "REST", REST, ARGS, 1, "<sp> offset (restart command)" },
 { "RNFR", RNFR, STR1, 1, "<sp> file-name" },
 { "RNTO", RNTO, STR1, 1, "<sp> file-name" },
 { "ABOR", ABOR, ARGS, 1, "(abort operation)" },
 { "DELE", DELE, STR1, 1, "<sp>
 file-name" },
 { "CWD",  CWD,  OSTR, 1, "[ <sp> directory-name ]" },
 { "XCWD", CWD, OSTR, 1, "[ <sp> directory-name ]" },
 { "LIST", LIST, OSTR, 1, "[ <sp> path-name ]" },
 { "NLST", NLST, OSTR, 1, "[ <sp> path-name ]" },
 { "SITE", SITE, SITECMD, 1, "site-cmd [ <sp> arguments ]" },
 { "SYST", SYST, ARGS, 1, "(get type of operating system)" },
 { "STAT", STAT, OSTR, 1, "[ <sp> path-name ]" },
 { "HELP", HELP, OSTR, 1, "[ <sp> <string> ]" },
 { "NOOP", NOOP, ARGS, 1, "" },
 { "MKD",  MKD,  STR1, 1, "<sp> path-name" },
 { "XMKD", MKD,  STR1, 1, "<sp> path-name" },
 { "RMD",  RMD,  STR1, 1, "<sp> path-name" },
 { "XRMD", RMD,  STR1, 1, "<sp> path-name" },
```

```
 { "PWD",  PWD,  ARGS, 1, "(return current directory)" },
 { "XPWD", PWD,  ARGS, 1, "(return current directory)" },
 { "CDUP", CDUP, ARGS, 1, "(change to parent directory)" },
 { "XCUP", CDUP, ARGS, 1, "(change to parent directory)" },
 { "STOU", STOU, STR1, 1, "<sp> file-name" },
 { "SIZE", SIZE, OSTR, 1, "<sp> path-name" },
 { "MDTM",
 MDTM, OSTR, 1, "<sp> path-name" },
 { NULL,   0,    0,    0, 0 }
};

struct tab sitetab[] = {
 { "UMASK", UMASK, ARGS, 1, "[ <sp> umask ]" },
 { "IDLE", IDLE, ARGS, 1, "[ <sp> maximum-idle-time ]" },
 { "CHMOD", CHMOD, NSTR, 1, "<sp> mode <sp> file-name" },
 { "HELP", HELP, OSTR, 1, "[ <sp> <string> ]" },
 { NULL,   0,    0,    0, 0 }
};

static void  help __P((struct tab *, char *));
static struct tab *
   lookup __P((struct tab *, char *));
static void  sizecmd __P((char *));
static int  yylex __P((void));

extern int epsvall;
#endif /* not ORIGINAL_SOURCE */

%}

%union {
 int i;
 char   *s;
}

%token
 A B C E F I
 L N P R S T
 ALL

 SP CRLF COMMA

 USER PASS ACCT REIN QUIT PORT
 PASV TYPE STRU MODE RETR STOR
 APPE MLFL MAIL MSND MSOM MSAM
 MRSQ MRCP ALLO REST RNFR RNTO
 ABOR DELE CWD LIST NLST SITE
 STAT HELP NOOP MKD RMD PWD
```

```
 CDUP STOU SMNT SYST SIZE MDTM

 LPRT LPSV EPRT EPSV

 UMASK IDLE CHMOD

 LEXERR

%token <s> STRING
%token <s> ALL
%token <i> NUMBER

%type <i> check_login
 octal_number byte_size
%type <i> struct_code mode_code type_code form_code
%type <s> pathstring pathname password username
%type <i> host_port host_long_port4 host_long_port6

%start cmd_list

%%

cmd_list
 : /* empty */
 | cmd_list cmd
  {
   fromname = (char *) 0;
   restart_point = (off_t) 0;
  }
 | cmd_list rcmd
 ;

cmd
 : USER SP username CRLF
  {
   user($3);
   free($3);
  }
 | PASS SP password CRLF
  {
   pass($3);
   memset($3, 0, strlen($3));
   free($3);
  }
 | PORT check_login SP host_port CRLF
  {
   if ($2) {
    if ($4) {
```

```
   usedefault = 1;
   reply(500,
       "Illegal PORT rejected (range errors).");
   } else if (portcheck &&
      ntohs(data_dest.su_sin.sin_port) < IPPORT_RESERVED) {
   usedefault = 1;
   reply(500,
       "Illegal PORT rejected (reserved port).");
   } else if (portcheck &&
      memcmp(&data_dest.su_sin.sin_addr,
      &his_addr.su_sin.sin_addr,
      sizeof data_dest.su_sin.sin_addr)) {
   usedefault = 1;
   reply(500,

   "Illegal PORT rejected (address wrong).");
   } else {
   usedefault = 0;
   if (pdata >= 0) {
    (void) close(pdata);
    pdata = -1;
   }
   reply(200, "PORT command successful.");
   }
  }
 }
| LPRT check_login SP host_long_port4 CRLF
 {
  /* reject invalid host_long_port4 */
  if ($4) {
   reply(500, "Illegal LPRT command rejected");
   usedefault = 1;
  } else if (epsvall) {
   reply(501, "LPRT disallowed after EPSV ALL");
   usedefault = 1;
  } else {
   usedefault = 0;
   if (pdata >= 0) {
    (void) close(pdata);
    pdata = -1;
   }
   reply(200, "LPRT command successful.");
  }
 }

| LPRT check_login SP host_long_port6 CRLF
 {
  /* reject invalid host_long_port6 */
```

```
 if ($4) {
  reply(500, "Illegal LPRT command rejected");
  usedefault = 1;
 } else if (epsvall) {
  reply(501, "LPRT disallowed after EPSV ALL");
  usedefault = 1;
 } else {
  usedefault = 0;
  if (pdata >= 0) {
   (void) close(pdata);
   pdata
= -1;
  }
  reply(200, "LPRT command successful.");
 }
}

| EPRT check_login SP STRING CRLF
{
 char *tmp = NULL;
 char *result[3];
 char *p, *q;
 char delim;
 struct addrinfo hints;
 struct addrinfo *res;
 int i;

 if (epsvall) {
  reply(501, "EPRT disallowed after EPSV ALL");
  goto eprt_done;
 }
 usedefault = 0;
 if (pdata >= 0) {
  (void) close(pdata);
  pdata = -1;
 }

 /*XXX checks for login */

 tmp = strdup($4);
 if (!tmp) {
  fatal("not enough core.");
  /*NOTREACHED*/
 }
 p = tmp;
 delim = p[0];
 p++;
 memset(result, 0, sizeof(result));
```

```
  for (i = 0; i < 3; i++) {
   q = strchr(p, delim);
   if (!q || *q != delim) {
  parsefail:
    reply(500, "Invalid argument, rejected.");
    if (tmp)
     free(tmp);
    usedefault = 1;
    goto eprt_done;
   }
   *q++ = '\0';
   result[i] = p;
   p = q;
  }

  /* some more sanity check */
  p = result[0];
  while (*p) {
   if (!isdigit(*p))
    goto parsefail;
   p++;
  }
  p
 = result[2];
  while (*p) {
   if (!isdigit(*p))
    goto parsefail;
   p++;
  }

  memset(&hints, 0, sizeof(hints));
  if (atoi(result[0]) == 1)
   hints.ai_family = PF_INET;
  if (atoi(result[0]) == 2)
   hints.ai_family = PF_INET6;
  else
   hints.ai_family = PF_UNSPEC; /*XXX*/
  hints.ai_socktype = SOCK_STREAM;
  if (getaddrinfo(result[1], result[2], &hints, &res))
   goto parsefail;
  memcpy(&data_dest, res->ai_addr, res->ai_addrlen);
  if (his_addr.su_family == AF_INET6 &&
      data_dest.su_family == AF_INET6) {
#ifdef ORIGINAL_SOURCE /* Linux doesn't have this: why? */
   /* XXX more sanity checks! */
   data_dest.su_sin6.sin6_scope_id =
       his_addr.su_sin6.sin6_scope_id;
#endif /* ORIGINAL_SOURCE */
```

```
 }
 free(tmp);
 tmp = NULL;
 if (pdata >= 0) {
  (void) close(pdata);
  pdata = -1;
 }
 reply(200, "EPRT command successful.");
eprt_done:;
 }

| PASV check_login CRLF
 {
 if ($2) {
  passive();
 }
 }
| LPSV
CRLF
 {
 if (epsvall)
  reply(501, "LPSV disallowed after EPSV ALL");
 else
  long_passive("LPSV", PF_UNSPEC);
 }
| EPSV SP NUMBER CRLF
 {
 int pf;
 switch ($3) {
 case 1:
  pf = PF_INET;
  break;
 case 2:
  pf = PF_INET6;
  break;
 default:
  pf = -1; /*junk*/
  break;
 }
 long_passive("EPSV", pf);
 }
| EPSV SP ALL CRLF
 {
 if (!logged_in) {
  syslog(LOG_NOTICE, "long passive but not logged in");
  reply(503, "Login with USER first.");
 } else {
  reply(200, "EPSV ALL command successful.");
```

```
   epsvall++;
  }
 }
| EPSV CRLF
 {
  long_passive("EPSV", PF_UNSPEC);
 }
| TYPE check_login SP type_code CRLF
 {
  if ($2) {
   switch (cmd_type) {

   case TYPE_A:
    if (cmd_form == FORM_N) {
     reply(200, "Type set to A.");
     type = cmd_type;
     form = cmd_form;
    } else
     reply(504, "Form must be N.");
    break;

   case TYPE_E:
    reply(504, "Type E not implemented.");
    break;

   case TYPE_I:
    reply(200,
"Type set to I.");
    type = cmd_type;
    break;

   case TYPE_L:
    if (cmd_bytesz == 8) {
          reply(200,
          "Type set to L (byte size 8).");
          type = cmd_type;
    } else
        reply(504, "Byte size must be 8.");

   }
  }
 }
| STRU check_login SP struct_code CRLF
 {
  if ($2) {
   switch ($4) {

   case STRU_F:
```

```
   reply(200, "STRU F ok.");
   break;

  default:
   reply(504, "Unimplemented STRU type.");
  }
 }
}
| MODE check_login SP mode_code CRLF
 {
  if ($2) {
   switch ($4) {

   case MODE_S:
    reply(200, "MODE S ok.");
    break;

   default:
    reply(502, "Unimplemented MODE type.");
   }
  }
 }
| ALLO check_login SP NUMBER CRLF
 {
  if ($2) {
   reply(202, "ALLO command ignored.");
  }
 }
| ALLO check_login SP NUMBER SP R SP NUMBER CRLF
 {
  if ($2) {
   reply(202, "ALLO command ignored.");
  }
 }
| RETR check_login SP pathname CRLF
 {
  if ($2 && $4 != NULL)
   retrieve(NULL,
$4);
  if ($4 != NULL)
   free($4);
 }
| STOR check_login SP pathname CRLF
 {
  if ($2 && $4 != NULL)
   store($4, "w", 0);
  if ($4 != NULL)
   free($4);
```

```
 }
| APPE check_login SP pathname CRLF
 {
  if ($2 && $4 != NULL)
   store($4, "a", 0);
  if ($4 != NULL)
   free($4);
 }
| NLST check_login CRLF
 {
  if ($2)
   send_file_list(".");
 }
| NLST check_login SP STRING CRLF
 {
  if ($2 && $4 != NULL)
   send_file_list($4);
  if ($4 != NULL)
   free($4);
 }
| LIST check_login CRLF
 {
  if ($2)
   retrieve("/bin/ls -lgAL", "");
 }
| LIST check_login SP pathname CRLF
 {
  if ($2 && $4 != NULL)
   retrieve("/bin/ls -lgAL %s", $4);
  if ($4 != NULL)
   free($4);
 }
| STAT check_login SP pathname CRLF
 {
  if ($2 && $4 != NULL)
   statfilecmd($4);
  if ($4 != NULL)
   free($4);
 }
| STAT check_login CRLF
 {
  if ($2)
   statcmd();
 }
| DELE check_login SP pathname CRLF
 {
  if ($2 && $4 != NULL)
   delete($4);
```

```
  if ($4 != NULL)
   free($4);
  }
 |
 RNTO check_login SP pathname CRLF
  {
  if ($2) {
   if (fromname) {
    renamecmd(fromname, $4);
    free(fromname);
    fromname = NULL;
   } else {
    reply(503,
      "Bad sequence of commands.");
   }
  }
  free($4);
  }
 | ABOR check_login CRLF
  {
  if ($2)
   reply(225, "ABOR command successful.");
  }
 | CWD check_login CRLF
  {
#ifdef STARENT
   /* pw_dir is forced to / */
#endif
   if ($2)
    cwd(pw->pw_dir);
  }
 | CWD check_login SP pathname CRLF
  {
  if ($2 && $4 != NULL)
   cwd($4);
  if ($4 != NULL)
   free($4);
  }
 | HELP CRLF
  {
  help(cmdtab, NULL);
  }
 | HELP SP STRING CRLF
  {
  char *cp = $3;

  if (strncasecmp(cp, "SITE", 4) == 0) {
   cp = $3 + 4;
```

```
  if (*cp == ' ')
   cp++;
  if (*cp)
   help(sitetab, cp);
  else
   help(sitetab, NULL);
  } else
  help(cmdtab, $3);

  if ($3 != NULL)
   free ($3);
 }
| NOOP CRLF
 {
  reply(200, "NOOP command successful.");
 }
| MKD check_login SP pathname CRLF
 {
  if
($2 && $4 != NULL)
   makedir($4);
  if ($4 != NULL)
   free($4);
 }
| RMD check_login SP pathname CRLF
 {
  if ($2 && $4 != NULL)
   removedir($4);
  if ($4 != NULL)
   free($4);
 }
| PWD check_login CRLF
 {
  if ($2)
   pwd();
 }
| CDUP check_login CRLF
 {
  /* No need to check path; cwd will */
  if ($2)
   cwd("..");
 }
| SITE SP HELP CRLF
 {
  help(sitetab, NULL);
 }
| SITE SP HELP SP STRING CRLF
 {
```

```
  help(sitetab, $5);

  if ($5 != NULL)
   free ($5);
 }
| SITE SP UMASK check_login CRLF
 {
  int oldmask;

  if ($4) {
   oldmask = umask(0);
   (void) umask(oldmask);
   reply(200, "Current UMASK is %03o", oldmask);
  }
 }
| SITE SP UMASK check_login SP octal_number CRLF
 {
  int oldmask;

  if ($4) {
   if (($6 == -1) || ($6 > 0777)) {
    reply(501, "Bad UMASK value");
   } else if (!umaskchange) {
    reply(550,
        "No permission to change umask.");
   } else {
    oldmask = umask($6);
    reply(200,
        "UMASK
set to %03o (was %03o)",
        $6, oldmask);
   }
  }
 }
| SITE SP CHMOD check_login SP octal_number SP pathname CRLF
 {
  if ($4 && ($8 != NULL)) {
   if ($6 > 0777)
    reply(501,
        "CHMOD: Mode value must be between "
        "0 and 0777");
   else if (!umaskchange)
    reply(550,
        "No permission to change mode of %s.",
        $8);
   else if (chmod($8, $6) < 0)
    perror_reply(550, $8);
   else
```

```
    reply(200,
        "CHMOD command successful.");
   }
   if ($8 != NULL)
    free($8);
  }
 | SITE SP check_login IDLE CRLF
  {
   if ($3)
    reply(200,
            "Current IDLE time limit is %d seconds; max %d",
    timeout, maxtimeout);
  }
 | SITE SP check_login IDLE SP NUMBER CRLF
  {
   if ($3) {
    if ($6 < 30 || $6 > maxtimeout) {
    reply(501,
       "Maximum IDLE time must be between "
       "30 and %d seconds",
       maxtimeout);
    } else {
     timeout = $6;
     (void) alarm((unsigned) timeout);
     reply(200,
        "Maximum
 IDLE time set to %d seconds",
        timeout);
    }
   }
  }
 | STOU check_login SP pathname CRLF
  {
   if ($2 && $4 != NULL)
    store($4, "w", 1);
   if ($4 != NULL)
    free($4);
  }
 | SYST check_login CRLF
  {
   if ($2)
#ifdef unix
#ifdef BSD
   reply(215, "UNIX Type: L%d Version: BSD-%d",
    NBBY, BSD);
#else /* BSD */
   reply(215, "UNIX Type: L%d", NBBY);
#endif /* BSD */
```

```
#else /* unix */
  reply(215, "UNKNOWN Type: L%d", NBBY);
#endif /* unix */
 }

 /*
  * SIZE is not in RFC959, but Postel has blessed it and
  * it will be in the updated RFC.
  *
  * Return size of file in a format suitable for
  * using with RESTART (we just count bytes).
  */
| SIZE check_login SP pathname CRLF
 {
  if ($2 && $4 != NULL)
   sizecmd($4);
  if ($4 != NULL)
   free($4);
 }

 /*
  * MDTM is not in RFC959, but Postel has blessed it and
  * it will be in the updated RFC.
  *
  * Return modification time of file as an ISO 3307
  * style time. E.g. YYYYMMDDHHMMSS or
 YYYYMMDDHHMMSS.xxx
  * where xxx is the fractional second (of any precision,
  * not necessarily 3 digits)
  */
| MDTM check_login SP pathname CRLF
 {
  if ($2 && $4 != NULL) {
   struct stat stbuf;
   if (stat($4, &stbuf) < 0)
    reply(550, "%s: %s",
        $4, strerror(errno));
   else if (!S_ISREG(stbuf.st_mode)) {
    reply(550, "%s: not a plain file.", $4);
   } else {
    struct tm *t;
    t = gmtime(&stbuf.st_mtime);
#ifdef ORIGINAL_SOURCE
    reply(213,
        "%04d%02d%02d%02d%02d%02d",
        TM_YEAR_BASE + t->tm_year,
        t->tm_mon+1, t->tm_mday,
        t->tm_hour, t->tm_min, t->tm_sec);
```

```
#else
     reply(213,
         "%04d%02d%02d%02d%02d%02d",
         1900 + t->tm_year,
         t->tm_mon+1, t->tm_mday,
         t->tm_hour, t->tm_min, t->tm_sec);
#endif /* ORIGINAL_SOURCE */
    }
   }
   if ($4 != NULL)
    free($4);
  }
 | QUIT CRLF
  {
   reply(221, "Goodbye.");
   dologout(0);
  }
 | error CRLF
  {
   yyerrok;
  }
 ;
rcmd
 : RNFR check_login
 SP pathname CRLF
  {
   char *renamefrom();

   restart_point = (off_t) 0;
   if ($2 && $4) {
    fromname = renamefrom($4);
    if (fromname == NULL && $4) {
     free($4);
    }
   } else {
    if ($4)
     free ($4);
   }
  }

 | REST check_login SP byte_size CRLF
  {
   if ($2) {
       fromname = NULL;
       restart_point = $4; /* XXX $4 is only "int" */
#ifdef ORIGINAL_SOURCE
       reply(350, "Restarting at %qd. %s", restart_point,
          "Send STORE or RETRIEVE to initiate transfer.");
```

```
#else
       reply(350, "Restarting at %qd. %s", (long long) restart_point,
          "Send STORE or RETRIEVE to initiate transfer.");
#endif /* ORIGINAL_SOURCE */
   }
  }
 ;

username
 : STRING
 ;

password
 : /* empty */
  {
   $$ = (char *)calloc(1, sizeof(char));
  }
 | STRING
 ;

byte_size
 : NUMBER
 ;

host_port
 : NUMBER COMMA NUMBER COMMA NUMBER COMMA NUMBER COMMA
  NUMBER COMMA NUMBER
  {
   char *a, *p;

   if ($1 < 0 || $1 > 255 || $3 < 0 || $3 > 255 ||
       $5 < 0 || $5 >
 255 || $7 < 0 || $7 > 255 ||
       $9 < 0 || $9 > 255 || $11 < 0 || $11 > 255) {
    $$ = 1;
   } else {
#ifdef ORIGINAL_SOURCE
    data_dest.su_sin.sin_len = sizeof(struct sockaddr_in);
#endif /* ORIGINAL_SOURCE */
    data_dest.su_sin.sin_family = AF_INET;
    p = (char *)&data_dest.su_sin.sin_port;
    p[0] = $9; p[1] = $11;
    a = (char *)&data_dest.su_sin.sin_addr;
    a[0] = $1; a[1] = $3; a[2] = $5; a[3] = $7;
    $$ = 0;
   }
  }
 ;
```

```
host_long_port4
 : NUMBER COMMA NUMBER COMMA NUMBER COMMA NUMBER COMMA
  NUMBER COMMA NUMBER COMMA NUMBER COMMA NUMBER COMMA
  NUMBER
  {
   char *a, *p;

   /* reject invalid LPRT command */
   if ($1 != 4 || $3 != 4
    || $5 < 0 || $5 > 255 || $7 < 0 || $7 > 255
    || $9 < 0 || $9 > 255 || $11 < 0 || $11 > 255
    || $13 != 2
    || $15 < 0 || $15 > 255 || $17 < 0 || $17 > 255) {
    $$ = 1;
   } else {
#ifdef ORIGINAL_SOURCE
    data_dest.su_sin.sin_len =
     sizeof(struct sockaddr_in);
#endif /* ORIGINAL_SOURCE */
    data_dest.su_family =
 AF_INET;
    p = (char *)&data_dest.su_port;
    p[0] = $15; p[1] = $17;
    a = (char *)&data_dest.su_sin.sin_addr;
    a[0] = $5; a[1] = $7; a[2] = $9; a[3] = $11;
    $$ = 0;
   }
  }
 ;

host_long_port6
 : NUMBER COMMA NUMBER COMMA NUMBER COMMA NUMBER COMMA
  NUMBER COMMA NUMBER COMMA NUMBER COMMA NUMBER COMMA
  NUMBER COMMA NUMBER COMMA NUMBER COMMA NUMBER COMMA
  NUMBER COMMA NUMBER COMMA NUMBER COMMA NUMBER COMMA
  NUMBER COMMA NUMBER COMMA NUMBER COMMA NUMBER COMMA
  NUMBER
  {
   char *a, *p;

   /* reject invalid LPRT command */
   if ($1 != 6 || $3 != 16
    || $5 < 0 || $5 > 255 || $7 < 0 || $7 > 255
    || $9 < 0 || $9 > 255 || $11 < 0 || $11 > 255
    || $13 < 0 || $13 > 255 || $15 < 0 || $15 > 255
    || $17 < 0 || $17 > 255 || $19 < 0 || $19 > 255
    || $21 < 0 || $21 > 255 || $23 < 0 || $23 > 255
```

```
    || $25 < 0 || $25 > 255 || $27 < 0 || $27 > 255
    || $29 < 0 || $29 > 255 || $31 < 0 || $31 > 255
    || $33 < 0 || $33 > 255 || $35 < 0 || $35 > 255
    || $37 != 2

 || $39 < 0 || $39 > 255 || $41 < 0 || $41 > 255) {
    $$ = 1;
   } else {
#ifdef ORIGINAL_SOURCE
    data_dest.su_sin6.sin6_len =
     sizeof(struct sockaddr_in6);
#endif /* ORIGINAL_SOURCE */
    data_dest.su_family = AF_INET6;
    p = (char *)&data_dest.su_port;
    p[0] = $39; p[1] = $41;
    a = (char *)&data_dest.su_sin6.sin6_addr;
     a[0] =  $5;  a[1] =  $7;
     a[2] =  $9;  a[3] = $11;
     a[4] = $13;  a[5] = $15;
     a[6] = $17;  a[7] = $19;
     a[8] = $21;  a[9] = $23;
    a[10] = $25; a[11] = $27;
    a[12] = $29; a[13] = $31;
    a[14] = $33; a[15] = $35;
    if (his_addr.su_family == AF_INET6) {
#ifdef ORIGINAL_SOURCE /* Linux doesn't have this: why? */
     /* XXX more sanity checks! */
     data_dest.su_sin6.sin6_scope_id =
        his_addr.su_sin6.sin6_scope_id;
#endif /* ORIGINAL_SOURCE */
    }

    $$ = 0;
   }
  }
 ;

form_code
 : N
  {
   $$ = FORM_N;
  }
 | T
  {
   $$ = FORM_T;
  }
 | C
  {
```

```
  $$ = FORM_C;
 }
;

type_code
 : A
 {
  cmd_type = TYPE_A;
  cmd_form
 = FORM_N;
 }
 | A SP form_code
 {
  cmd_type = TYPE_A;
  cmd_form = $3;
 }
 | E
 {
  cmd_type = TYPE_E;
  cmd_form = FORM_N;
 }
 | E SP form_code
 {
  cmd_type = TYPE_E;
  cmd_form = $3;
 }
 | I
 {
  cmd_type = TYPE_I;
 }
 | L
 {
  cmd_type = TYPE_L;
  cmd_bytesz = NBBY;
 }
 | L SP byte_size
 {
  cmd_type = TYPE_L;
  cmd_bytesz = $3;
 }
 /* this is for a bug in the BBN ftp */
 | L byte_size
 {
  cmd_type = TYPE_L;
  cmd_bytesz = $2;
 }
;
```

```
struct_code
 : F
  {
   $$ = STRU_F;
  }
 | R
  {
   $$ = STRU_R;
  }
 | P
  {
   $$ = STRU_P;
  }
 ;

mode_code
 : S
  {
   $$ = MODE_S;
  }
 | B
  {
   $$ = MODE_B;
  }
 | C
  {
   $$ = MODE_C;
  }
 ;

pathname
 : pathstring
  {
   /*
    * Problem: this production is used for all pathname
    * processing, but only gives a 550 error reply.
    * This is a valid reply in some cases but not in others.
    */
#ifndef STARENT
   if (logged_in && $1 && strchr($1, '~') != NULL) {
    glob_t gl;
#ifdef ORIGINAL_SOURCE
    int
 flags =
     GLOB_BRACE|GLOB_NOCHECK|GLOB_QUOTE|GLOB_TILDE;
#else
    int flags =
     GLOB_BRACE|GLOB_NOCHECK|GLOB_TILDE;
```

```
#endif /* ORIGINAL_SOURCE */
    char *pptr = $1;

    /*
     * glob() will only find a leading ~, but
     * Netscape kindly puts a slash in front of
     * it for publish URLs.  There needs to be
     * a flag for glob() that expands tildes
     * anywhere in the string.
     */
    if ((pptr[0] == '/') && (pptr[1] == '~'))
     pptr++;

    memset(&gl, 0, sizeof(gl));
    if (glob(pptr, flags, NULL, &gl) ||
        gl.gl_pathc == 0) {
     reply(550, "not found");
     $$ = NULL;
    } else {
     $$ = strdup(gl.gl_pathv[0]);
    }
    globfree(&gl);
    free($1);
   } else
    $$ = $1;
#else
   /* No ~ globbing */
   $$ = $1;
#endif
  }
 ;

pathstring
 : STRING
 ;

octal_number
 : NUMBER
  {
   int ret, dec, multby, digit;

   /*
    * Convert a number that was read as decimal number
    * to what it would be if it had been read as octal.
    */
   dec
 = $1;
   multby = 1;
```

```
  ret = 0;
  while (dec) {
   digit = dec%10;
   if (digit > 7) {
    ret = -1;
    break;
   }
   ret += digit * multby;
   multby *= 8;
   dec /= 10;
  }
  $$ = ret;
 }
;


check_login
 : /* empty */
  {
   if (logged_in)
    $$ = 1;
   else {
    reply(530, "Please login with USER and PASS.");
    $$ = 0;
   }
  }
 ;

%%

extern jmp_buf errcatch;

#ifdef ORIGINAL_SOURCE /* Moved to the beginning */
#define CMD 0 /* beginning of command */
#define ARGS 1 /* expect miscellaneous arguments */
#define STR1 2 /* expect SP followed by STRING */
#define STR2 3 /* expect STRING */
#define OSTR 4 /* optional SP then STRING */
#define ZSTR1 5 /* SP then optional STRING */
#define ZSTR2 6 /* optional STRING after SP */
#define SITECMD 7 /* SITE command */
#define NSTR 8 /* Number followed by a string */

struct tab {
 char *name;
 short token;
 short state;
 short implemented; /* 1 if command is implemented */
```

```
 char *help;
};

struct tab cmdtab[] = {  /*
 In order defined in RFC 765 */
 { "USER", USER, STR1, 1, "<sp> username" },
 { "PASS", PASS, ZSTR1, 1, "<sp> password" },
 { "ACCT", ACCT, STR1, 0, "(specify account)" },
 { "SMNT", SMNT, ARGS, 0, "(structure mount)" },
 { "REIN", REIN, ARGS, 0, "(reinitialize server state)" },
 { "QUIT", QUIT, ARGS, 1, "(terminate service)", },
 { "PORT", PORT, ARGS, 1, "<sp> b0, b1, b2, b3, b4" },
 { "LPRT", LPRT, ARGS, 1, "<sp> af, hal, h1, h2, h3,..., pal, p1, p2..." },
 { "EPRT", EPRT, STR1, 1, "<sp> |af|addr|port|" },
 { "PASV", PASV, ARGS, 1, "(set server in passive mode)" },
 { "LPSV", LPSV, ARGS, 1, "(set server in passive mode)" },
 { "EPSV", EPSV, ARGS, 1, "[<sp> af|ALL]" },
 { "TYPE", TYPE, ARGS, 1, "<sp> [ A | E | I | L ]" },
 { "STRU", STRU, ARGS, 1, "(specify file structure)" },
 { "MODE", MODE, ARGS, 1, "(specify transfer mode)" },
 { "RETR", RETR, STR1, 1, "<sp> file-name" },
 { "STOR", STOR, STR1, 1, "<sp> file-name" },
 { "APPE", APPE, STR1, 1, "<sp> file-name" },
 { "MLFL", MLFL,
 OSTR, 0, "(mail file)" },
 { "MAIL", MAIL, OSTR, 0, "(mail to user)" },
 { "MSND", MSND, OSTR, 0, "(mail send to terminal)" },
 { "MSOM", MSOM, OSTR, 0, "(mail send to terminal or mailbox)" },
 { "MSAM", MSAM, OSTR, 0, "(mail send to terminal and mailbox)" },
 { "MRSQ", MRSQ, OSTR, 0, "(mail recipient scheme question)" },
 { "MRCP", MRCP, STR1, 0, "(mail recipient)" },
 { "ALLO", ALLO, ARGS, 1, "allocate storage (vacuously)" },
 { "REST", REST, ARGS, 1, "<sp> offset (restart command)" },
 { "RNFR", RNFR, STR1, 1, "<sp> file-name" },
 { "RNTO", RNTO, STR1, 1, "<sp> file-name" },
 { "ABOR", ABOR, ARGS, 1, "(abort operation)" },
 { "DELE", DELE, STR1, 1, "<sp> file-name" },
 { "CWD",  CWD,  OSTR, 1, "[ <sp> directory-name ]" },
 { "XCWD", CWD, OSTR, 1, "[ <sp> directory-name ]" },
 { "LIST", LIST, OSTR, 1, "[ <sp> path-name ]" },
 { "NLST", NLST, OSTR, 1, "[ <sp> path-name ]" },
 { "SITE", SITE, SITECMD, 1, "site-cmd [ <sp> arguments ]" },
 { "SYST", SYST, ARGS, 1, "(get type of operating
 system)" },
 { "STAT", STAT, OSTR, 1, "[ <sp> path-name ]" },
 { "HELP", HELP, OSTR, 1, "[ <sp> <string> ]" },
 { "NOOP", NOOP, ARGS, 1, "" },
 { "MKD",  MKD,  STR1, 1, "<sp> path-name" },
```

```
 { "XMKD", MKD,  STR1, 1, "<sp> path-name" },
 { "RMD",  RMD,  STR1, 1, "<sp> path-name" },
 { "XRMD", RMD,  STR1, 1, "<sp> path-name" },
 { "PWD",  PWD,  ARGS, 1, "(return current directory)" },
 { "XPWD", PWD,  ARGS, 1, "(return current directory)" },
 { "CDUP", CDUP, ARGS, 1, "(change to parent directory)" },
 { "XCUP", CDUP, ARGS, 1, "(change to parent directory)" },
 { "STOU", STOU, STR1, 1, "<sp> file-name" },
 { "SIZE", SIZE, OSTR, 1, "<sp> path-name" },
 { "MDTM", MDTM, OSTR, 1, "<sp> path-name" },
 { NULL,   0,    0,    0, 0 }
};

struct tab sitetab[] = {
 { "UMASK", UMASK, ARGS, 1, "[ <sp> umask ]" },
 { "IDLE", IDLE, ARGS, 1, "[ <sp> maximum-idle-time ]" },
 { "CHMOD", CHMOD, NSTR, 1, "<sp> mode <sp> file-name" },
 { "HELP", HELP, OSTR, 1, "[ <sp> <string> ]" },
 { NULL,   0,    0,    0, 0
 }
};

static void  help __P((struct tab *, char *));
static struct tab *
   lookup __P((struct tab *, char *));
static void  sizecmd __P((char *));
static int  yylex __P((void));

extern int epsvall;
#endif /* ORIGINAL_SOURCE */

static struct tab *
lookup(p, cmd)
 struct tab *p;
 char *cmd;
{

 for (; p->name != NULL; p++)
  if (strcmp(cmd, p->name) == 0)
   return (p);
 return (0);
}

#include <arpa/telnet.h>

/*
* getline - a hacked up version of fgets to ignore TELNET escape codes.
*/
```

```
#ifdef ORIGINAL_SOURCE
char *
getline(s, n, iop)
 char *s;
 int n;
 FILE *iop;
#else
char *
getline_ORIG(s, n, iop)
 char *s;
 int n;
 FILE *iop;
#endif /* ORIGINAL_SOURCE */
{
 int c;
 register char *cs;

 cs = s;
/* tmpline may contain saved command from urgent mode interruption */
 for (c = 0; tmpline[c] != '\0' && --n > 0; ++c) {
  *cs++ = tmpline[c];
  if (tmpline[c] == '\n') {
   *cs++ = '\0';
   if (debug)
    syslog(LOG_DEBUG, "command: %s", s);
   tmpline[0] = '\0';
   return(s);
  }
  if
 (c == 0)
   tmpline[0] = '\0';
 }
 while ((c = getc(iop)) != EOF) {
  c &= 0377;
  if (c == IAC) {
      if ((c = getc(iop)) != EOF) {
   c &= 0377;
   switch (c) {
   case WILL:
   case WONT:
    c = getc(iop);
    printf("%c%c%c", IAC, DONT, 0377&c);
    (void) fflush(stdout);
    continue;
   case DO:
   case DONT:
    c = getc(iop);
    printf("%c%c%c", IAC, WONT, 0377&c);
```

```
   (void) fflush(stdout);
   continue;
  case IAC:
   break;
  default:
   continue; /* ignore command */
  }
     }
 }
 *cs++ = c;
 if (--n <= 0 || c == '\n')
  break;
}
if (c == EOF && cs == s)
 return (NULL);
*cs++ = '\0';
if (debug) {
 if (!guest && strncasecmp("pass ", s, 5) == 0) {
  /* Don't syslog passwords */
  syslog(LOG_DEBUG, "command: %.5s ???", s);
 } else {
  register char *cp;
  register int len;

  /* Don't syslog trailing CR-LF */
  len = strlen(s);
  cp = s + len - 1;
  while (cp >= s && (*cp == '\n' || *cp == '\r')) {
   --cp;
   --len;
  }
  syslog(LOG_DEBUG,
 "command: %.*s", len, s);
 }
}
return (s);
}

void
toolong(signo)
 int signo;
{

 reply(421,
     "Timeout (%d seconds): closing control connection.", timeout);
 if (logging)
  syslog(LOG_INFO, "User %s timed out after %d seconds",
      (pw ? pw -> pw_name : "unknown"), timeout);
```

```
 dologout(1);
}

static int
yylex()
{
 static int cpos, state;
 char *cp, *cp2;
 struct tab *p;
 int n;
 char c;

 for (;;) {
  switch (state) {

  case CMD:
   (void) signal(SIGALRM, toolong);
   (void) alarm((unsigned) timeout);
#ifdef ORIGINAL_SOURCE
   if (getline(cbuf, sizeof(cbuf)-1, stdin) == NULL) {
#else
   if (getline_ORIG(cbuf, sizeof(cbuf)-1, stdin) == NULL) {
#endif /* ORIGINAL_SOURCE */
    reply(221, "You could at least say goodbye.");
    dologout(0);
   }
   (void) alarm(0);
   if ((cp = strchr(cbuf, '\r'))) {
    *cp++ = '\n';
    *cp = '\0';
   }
#ifdef HASSETPROCTITLE
   if (strncasecmp(cbuf, "PASS", 4) != 0) {
    if ((cp = strpbrk(cbuf, "\n"))) {
     c = *cp;
     *cp = '\0';
     setproctitle("%s:
 %s", proctitle, cbuf);
     *cp = c;
    }
   }
#endif /* HASSETPROCTITLE */
   if ((cp = strpbrk(cbuf, " \n")))
    cpos = cp - cbuf;
   if (cpos == 0)
    cpos = 4;
   c = cbuf[cpos];
   cbuf[cpos] = '\0';
```

```
 upper(cbuf);
 p = lookup(cmdtab, cbuf);
 cbuf[cpos] = c;
 if (p != 0) {
  if (p->implemented == 0) {
   nack(p->name);
   longjmp(errcatch,0);
   /* NOTREACHED */
  }
  state = p->state;
  yylval.s = p->name;
  return (p->token);
 }
 break;

case SITECMD:
 if (cbuf[cpos] == ' ') {
  cpos++;
  return (SP);
 }
 cp = &cbuf[cpos];
 if ((cp2 = strpbrk(cp, " \n")))
  cpos = cp2 - cbuf;
 c = cbuf[cpos];
 cbuf[cpos] = '\0';
 upper(cp);
 p = lookup(sitetab, cp);
 cbuf[cpos] = c;
 if (p != 0) {
  if (p->implemented == 0) {
   state = CMD;
   nack(p->name);
   longjmp(errcatch,0);
   /* NOTREACHED */
  }
  state = p->state;
  yylval.s = p->name;
  return (p->token);
 }
 state = CMD;
 break;

case
OSTR:
 if (cbuf[cpos] == '\n') {
  state = CMD;
  return (CRLF);
 }
```

```
 /* FALLTHROUGH */

case STR1:
case ZSTR1:
dostr1:
 if (cbuf[cpos] == ' ') {
  cpos++;
  state = state == OSTR ? STR2 : state+1;
  return (SP);
 }
 break;

case ZSTR2:
 if (cbuf[cpos] == '\n') {
  state = CMD;
  return (CRLF);
 }
 /* FALLTHROUGH */

case STR2:
 cp = &cbuf[cpos];
 n = strlen(cp);
 cpos += n - 1;
 /*
  * Make sure the string is nonempty and \n terminated.
  */
 if (n > 1 && cbuf[cpos] == '\n') {
  cbuf[cpos] = '\0';
  yylval.s = strdup(cp);
  if (yylval.s == NULL)
   fatal("Ran out of memory.");
  cbuf[cpos] = '\n';
  state = ARGS;
  return (STRING);
 }
 break;

case NSTR:
 if (cbuf[cpos] == ' ') {
  cpos++;
  return (SP);
 }
 if (isdigit(cbuf[cpos])) {
  cp = &cbuf[cpos];
  while (isdigit(cbuf[++cpos]))
   ;
  c = cbuf[cpos];
  cbuf[cpos] = '\0';
```

```
  yylval.i = atoi(cp);
  cbuf[cpos] = c;
  state = STR1;
  return
(NUMBER);
  }
  state = STR1;
  goto dostr1;

 case ARGS:
  if (isdigit(cbuf[cpos])) {
   cp = &cbuf[cpos];
   while (isdigit(cbuf[++cpos]))
    ;
   c = cbuf[cpos];
   cbuf[cpos] = '\0';
   yylval.i = atoi(cp);
   cbuf[cpos] = c;
   return (NUMBER);
  }
  if (strncasecmp(&cbuf[cpos], "ALL", 3) == 0
   && !isalnum(cbuf[cpos + 3])) {
   yylval.s = strdup("ALL");
   cpos += 3;
   return ALL;
  }
  switch (cbuf[cpos++]) {

  case '\n':
   state = CMD;
   return (CRLF);

  case ' ':
   return (SP);

  case ',':
   return (COMMA);

  case 'A':
  case 'a':
   return (A);

  case 'B':
  case 'b':
   return (B);

  case 'C':
  case 'c':
```

```
  return (C);

 case 'E':
 case 'e':
  return (E);

 case 'F':
 case 'f':
  return (F);

 case 'I':
 case 'i':
  return (I);

 case 'L':
 case 'l':
  return (L);

 case 'N':
 case 'n':
  return (N);

 case 'P':
 case 'p':
  return (P);

 case 'R':
 case 'r':
  return (R);

 case
'S':
 case 's':
  return (S);

 case 'T':
 case 't':
  return (T);

 }
 break;

default:
 fatal("Unknown state in scanner.");
}
yyerror((char *) 0);
state = CMD;
longjmp(errcatch,0);
```

```
 }
}

void
upper(s)
 char *s;
{
 while (*s != '\0') {
  if (islower(*s))
   *s = toupper(*s);
  s++;
 }
}

static void
help(ctab, s)
 struct tab *ctab;
 char *s;
{
 struct tab *c;
 int width, NCMDS;
 char *type;

 if (ctab == sitetab)
  type = "SITE ";
 else
  type = "";
 width = 0, NCMDS = 0;
 for (c = ctab; c->name != NULL; c++) {
  int len = strlen(c->name);

  if (len > width)
   width = len;
  NCMDS++;
 }
 width = (width + 8) &~ 7;
 if (s == 0) {
  int i, j, w;
  int columns, lines;

  lreply(214, "The following %scommands are recognized %s.",
      type, "(* =>'s unimplemented)");
  columns = 76 / width;
  if (columns == 0)
   columns = 1;
  lines = (NCMDS + columns - 1) / columns;
  for (i = 0; i < lines; i++) {
   printf("   ");
```

```
   for (j = 0; j < columns; j++)
  {
    c = ctab + j * lines + i;
    printf("%s%c", c->name,
     c->implemented ? ' ' : '*');
    if (c + lines >= &ctab[NCMDS])
     break;
    w = strlen(c->name) + 1;
    while (w < width) {
     putchar(' ');
     w++;
    }
   }
   printf("\r\n");
  }
  (void) fflush(stdout);
  reply(214, "Direct comments to ftp-bugs@%s.", hostname);
  return;
 }
 upper(s);
 c = lookup(ctab, s);
 if (c == (struct tab *)0) {
  reply(502, "Unknown command %s.", s);
  return;
 }
 if (c->implemented)
  reply(214, "Syntax: %s%s %s", type, c->name, c->help);
 else
  reply(214, "%s%-*s\t%s; unimplemented.", type, width,
      c->name, c->help);
}

static void
sizecmd(filename)
 char *filename;
{
 switch (type) {
 case TYPE_L:
 case TYPE_I: {
  struct stat stbuf;
  if (stat(filename, &stbuf) < 0 || !S_ISREG(stbuf.st_mode))
   reply(550, "%s: not a plain file.", filename);
  else
#ifdef ORIGINAL_SOURCE
   reply(213, "%qu", stbuf.st_size);
#else
   reply(213, "%qu", (unsigned long long) stbuf.st_size);
#endif
```

```
 /* ORIGINAL_SOURCE */
  break; }
 case TYPE_A: {
  FILE *fin;
  int c;
  off_t count;
  struct stat stbuf;
  fin = fopen(filename, "r");
  if (fin == NULL) {
   perror_reply(550, filename);
   return;
  }
  if (fstat(fileno(fin), &stbuf) < 0 || !S_ISREG(stbuf.st_mode)) {
   reply(550, "%s: not a plain file.", filename);
   (void) fclose(fin);
   return;
  }

  count = 0;
  while((c=getc(fin)) != EOF) {
   if (c == '\n') /* will get expanded to \r\n */
    count++;
   count++;
  }
  (void) fclose(fin);

#ifdef ORIGINAL_SOURCE
  reply(213, "%qd", count);
#else
  reply(213, "%qd", (long long) count);
#endif /* ORIGINAL_SOURCE */
  break; }
 default:
  reply(504, "SIZE not implemented for Type %c.", "?AEIL"[type]);
 }
}
```

Found in path(s):
* /ftpd-1-tar-gz/ftpd/ftpcmd.y

1.86 libxml2 2.22.22

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1.87 ptyprocess 0.7.0

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1.88 nghttp2 1.61.0

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- mrbgems/mruby-dir/src/Win/dirent.c: MIT-like license by Kevlin Henney

[src/readfloat.c]

strtod implementation.
author: Yasuhiro Matsumoto (@mattn)
license: public domain

The original code can be found in https://github.com/mattn/strtod

[src/fmt_fp.c]

The code in this function was inspired from Fred Bayer's pdouble.c.
Since pdouble.c was released as Public Domain, I'm releasing this
code as public domain as well.

Dave Hylands

The original code can be found in https://github.com/dhylands/format-float

[mrbgems/mruby-dir/src/Win/dirent.c] used only for Windows platform

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But that said, if there are any problems please get in touch.
set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
mruby-set

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1.89 tokyo-cabinet 1.3.1

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1.90 jaraco-functools 4.0.1

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##
Constant-time SSSE3 AES core implementation.

version 0.1
##
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1.98 wheel 0.43.0

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1.103 urllib3 1.26.20

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1.104 python-certifi 2024.08.30

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.105 idna 3.10

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1.106 acpica 20190816

1.106.1 Available under license :

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MODULE_LICENSE("GPL v2");

Found in path(s):
* /acpi-tar-gz/acpi/acpi_configfs.c
* /acpi-tar-gz/acpi/dptf/dptf_power.c
* /acpi-tar-gz/acpi/acpi_tad.c
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/*
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*/

Found in path(s):
* /acpi-tar-gz/acpi/nfit/core.c
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/*
* TI TPS68470 PMIC operation region driver
*
* Copyright (C) 2017 Intel Corporation. All rights reserved.
*
* Author: Rajmohan Mani <rajmohan.mani@intel.com>
*
* Based on drivers/acpi/pmic/intel_pmic* drivers
*/

Found in path(s):
* /acpi-tar-gz/acpi/pmic/tps68470_pmic.c
No license file was found, but licenses were detected in source scan.

/*
* acpi_lpit.c - LPIT table processing functions
*
* Copyright (C) 2017 Intel Corporation. All rights reserved.
*/

Found in path(s):
* /acpi-tar-gz/acpi/acpi_lpit.c
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/*
* Dollar Cove TI PMIC operation region driver
* Copyright (C) 2014 Intel Corporation. All rights reserved.
*
* Rewritten and cleaned up
* Copyright (C) 2017 Takashi Iwai <tiwai@suse.de>
*/

Found in path(s):

* /acpi-tar-gz/acpi/pmic/intel_pmic_chtdc_ti.c
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```
/*
*  Copyright (C) 2015       Red Hat Inc.
*                   Hans de Goede <hdegoede@redhat.com>
*  Copyright (C) 2008       SuSE Linux Products GmbH
*                   Thomas Renninger <trenn@suse.de>
*
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*
* video_detect.c:
* After PCI devices are glued with ACPI devices
* acpi_get_pci_dev() can be called to identify ACPI graphics
* devices for which a real graphics card is plugged in
*
* Depending on whether ACPI graphics extensions (cmp. ACPI spec Appendix B)
* are available, video.ko should be used to handle the device.
*
* Otherwise vendor specific drivers like thinkpad_acpi, asus-laptop,
* sony_acpi,... can take care about backlight brightness.
*
* Backlight drivers can use acpi_video_get_backlight_type() to determine
* which driver should handle the backlight.
*
* If CONFIG_ACPI_VIDEO is neither
 set as "compiled in" (y) nor as a module (m)
* this file will not be compiled and acpi_video_get_backlight_type() will
* always return acpi_backlight_vendor.
*/
```

Found in path(s):
* /acpi-tar-gz/acpi/video_detect.c
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```
/*
* Intel CrystalCove PMIC operation region driver
*
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*/
```

Found in path(s):
* /acpi-tar-gz/acpi/pmic/intel_pmic_crc.c
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```
/*
* ACPI device specific properties support.
*
```

```
* Copyright (C) 2014, Intel Corporation
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*
* Authors: Mika Westerberg <mika.westerberg@linux.intel.com>
*          Darren Hart <dvhart@linux.intel.com>
*          Rafael J. Wysocki <rafael.j.wysocki@intel.com>
*/
```

Found in path(s):
* /acpi-tar-gz/acpi/property.c
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```
/*
* XPower AXP288 PMIC operation region driver
*
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*/
```

Found in path(s):
* /acpi-tar-gz/acpi/pmic/intel_pmic_xpower.c
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```
/*
* NFIT - Machine Check Handler
*
* Copyright(c) 2013-2016 Intel Corporation. All rights reserved.
*/
```

Found in path(s):
* /acpi-tar-gz/acpi/nfit/mce.c
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```
/*
* Copyright(c) 2018 Intel Corporation. All rights reserved.
* Intel specific definitions for NVDIMM Firmware Interface Table - NFIT
*/
```

Found in path(s):
* /acpi-tar-gz/acpi/nfit/intel.h
No license file was found, but licenses were detected in source scan.

```
MODULE_LICENSE("GPL");
```

Found in path(s):
* /acpi-tar-gz/acpi/acpi_dbg.c
* /acpi-tar-gz/acpi/hed.c
* /acpi-tar-gz/acpi/processor_driver.c
* /acpi-tar-gz/acpi/apei/erst-dbg.c

* /acpi-tar-gz/acpi/ec_sys.c
* /acpi-tar-gz/acpi/button.c
* /acpi-tar-gz/acpi/sbs.c
* /acpi-tar-gz/acpi/sbshc.c
* /acpi-tar-gz/acpi/acpi_pad.c
* /acpi-tar-gz/acpi/acpi_video.c
* /acpi-tar-gz/acpi/fan.c
* /acpi-tar-gz/acpi/acpi_extlog.c
* /acpi-tar-gz/acpi/apei/einj.c
* /acpi-tar-gz/acpi/ac.c
* /acpi-tar-gz/acpi/battery.c
* /acpi-tar-gz/acpi/thermal.c
* /acpi-tar-gz/acpi/custom_method.c
* /acpi-tar-gz/acpi/acpi_ipmi.c

No license file was found, but licenses were detected in source scan.

```
/*
* Generic Event Device for ACPI.
*
* Copyright (c) 2016, The Linux Foundation. All rights reserved.
*
* Generic Event Device allows platforms to handle interrupts in ACPI
* ASL statements. It follows very similar to  _EVT method approach
* from GPIO events. All interrupts are listed in _CRS and the handler
* is written in _EVT method. Here is an example.
*
* Device (GED0)
* {
*
*     Name (_HID, "ACPI0013")
*     Name (_UID, 0)
*     Method (_CRS, 0x0, Serialized)
*     {
*  Name (RBUF, ResourceTemplate ()
*  {
*  Interrupt(ResourceConsumer, Edge, ActiveHigh, Shared, , , )
*  {123}
*  }
*     })
*
*     Method (_EVT, 1) {
*           if (Lequal(123, Arg0))
*           {
*           }
*     }
* }
*/
```

Found in path(s):
* /acpi-tar-gz/acpi/evged.c
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/*
* Intel BXT WhiskeyCove PMIC operation region driver
*
* Copyright (C) 2015 Intel Corporation. All rights reserved.
*/

Found in path(s):
* /acpi-tar-gz/acpi/pmic/intel_pmic_bxtwc.c
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/*
* NVDIMM Firmware Interface Table - NFIT
*
* Copyright(c) 2013-2015 Intel Corporation. All rights reserved.
*/

Found in path(s):
* /acpi-tar-gz/acpi/nfit/nfit.h
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/*
* X86 ACPI Utility Functions
*
* Copyright (C) 2017 Hans de Goede <hdegoede@redhat.com>
*
* Based on various non upstream patches to support the CHT Whiskey Cove PMIC:
* Copyright (C) 2013-2015 Intel Corporation. All rights reserved.
*/

Found in path(s):
* /acpi-tar-gz/acpi/x86/utils.c
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/*
* intel_pmic.c - Intel PMIC operation region driver
*
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* /acpi-tar-gz/acpi/pmic/intel_pmic.c
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* /acpi-tar-gz/acpi/nfit/intel.c
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* acpi_lpat.c - LPAT table processing functions
*
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*/

Found in path(s):
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/*
* Intel CHT Whiskey Cove PMIC operation region driver
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*
* Based on various non upstream patches to support the CHT Whiskey Cove PMIC:
* Copyright (C) 2013-2015 Intel Corporation. All rights reserved.
*/

Found in path(s):
* /acpi-tar-gz/acpi/pmic/intel_pmic_chtwc.c
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/*
* Copyright (C) 2004, 2013 Intel Corporation
* Author: Naveen B S <naveen.b.s@intel.com>
* Author: Rafael J. Wysocki <rafael.j.wysocki@intel.com>
*
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*
* ACPI based HotPlug driver that supports Memory Hotplug
* This driver fields notifications from firmware for memory add
* and remove operations and alerts the VM of the affected memory
* ranges.
*/

Found in path(s):
* /acpi-tar-gz/acpi/acpi_memhotplug.c

1.107 busybox 1.37.0

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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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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.

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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:

```
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 Library General
Public License instead of this License.
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
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@c man end
@end ignore
@node Copying

@c man begin DESCRIPTION
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@center Version 3, 29 June 2007

@c This file is intended to be included in another file.

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Therefore, we have designed this version of the GPL to prohibit the
practice for those products. If such problems arise substantially in
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freedom of users.

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
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assures that patents cannot be used to render the program non-free.

The precise
 terms and conditions for copying, distribution and
modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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A ``covered work'' means either the unmodified Program or a work based on the Program.

To ``propagate'' a work means to do anything with it that, without permission, would make you directly or secondarily liable
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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.

A ``Standard Interface'' means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The ``System Libraries'' of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A

``Major Component'', in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if
any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The ``Corresponding Source'' for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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You may convey a work based on the Program, or the modifications
to
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@enumerate a
@item
The work must carry prominent notices stating that you modified it, and giving a relevant date.

@item

The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to ``keep intact all notices".

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@item
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@end enumerate

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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

@enumerate
a
@item
Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

@item

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

@item
Convey individual copies of the object code with a copy of the written
offer
 to provide the Corresponding Source. This alternative is
allowed only occasionally and noncommercially, and only if you
received the object code with such an offer, in accord with subsection
6b.

@item
Convey the object code by offering access from a designated place
(gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to copy
the object code is a network server, the Corresponding Source may be
on a different server (operated by you or a third party) that supports
equivalent copying facilities, provided you maintain clear directions
next to the object code saying where to find the Corresponding Source.
Regardless of what server hosts the Corresponding Source, you remain
obligated to ensure that it is available for as long as needed to
satisfy these requirements.

@item
Convey the object
 code using peer-to-peer transmission, provided you
inform other peers where the object code and Corresponding Source of
the work are being offered to the general public at no charge under
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@end enumerate

A separable portion of the object code, whose source code is excluded
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@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

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To
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the ``copyright'' line and a pointer to where the full notice is found.

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@end smallexample

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Version 3.1, 31 March 2009

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This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was
originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied
the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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Version 2.1, February 1999

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* m4/ax_func_which_gethostbyname_r.m4

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@appendixsubsec Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software---typically libraries---of
the Free
Software Foundation and other authors who decide to use it. You can use
it too, but we suggest you first think carefully about whether this
license or the ordinary General Public License is the better strategy to

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

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

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

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

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

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems
that might be
introduced by others.

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

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

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

We call this license the @dfn{Lesser} General Public License because it does @emph{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.

@iftex
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end iftex
@ifinfo
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@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end ifinfo

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

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

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

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

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@enumerate a
@item
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@item
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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You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

@item
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.)
@end enumerate

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In addition, mere aggregation of another work not based on the Library
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 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

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You may copy and distribute the Library
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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.

@item
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.

@item
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:

@enumerate a
@item
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.)

@item
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.

@item
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.

@item
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.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

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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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:

@enumerate a
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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.

@item
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.
@end enumerate

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@end enumerate

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

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

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

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

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@var{one line to give the library's name and an idea of what it does.}
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 have received a copy of the GNU Lesser General Public
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USA.
@end smallexample

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You should also get your employer (if you work as a programmer) or your
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necessary. Here is a sample; alter the names:

@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.110 openssh 9.9p1

1.110.1 Notifications :

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit
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This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).
This product includes software written by Tim Hudson (tjh@cryptsoft.com).

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1)
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*
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* can be used freely for any purpose. Any derived versions of this
* software must be clearly marked as such, and if the derived work is
* incompatible with the protocol description in the RFC file, it must be
* called by a name other than "ssh" or "Secure Shell".

[Tatu continues]
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* restrictive); see below for details.

[However, none of that term is relevant at this point in time. All of
these restrictively licenced software components which he talks about
have been removed from OpenSSH, i.e.,

- RSA is no longer included, found in the OpenSSL library
- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

[The licence continues]

Note that any information and
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ssh-keyscan was contributed by David Mazieres under a BSD-style
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```
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```

4)
The Rijndael implementation by Vincent Rijmen, Antoon Bosselaers
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with the following license:

```
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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* beer in return. Poul-Henning Kamp

b) snprintf replacement

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1.115 cffi 1.17.1

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1.116 distro 1.9.0

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1.117 msgpack 1.1.0

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1.118 distlib 0.3.9

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's

principal author, although it includes many contributions from others.

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
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2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
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2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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distlib has started off using some of the code from distutil2.

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1.120 pycparser 2.18

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1.121 python-setuptools 75.8.0

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You can report issues or suggest changes directly to `validate-pyproject`
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- https://github.com/abravalheri/validate-pyproject/issues

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting

Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

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

All
 Python releases are Open Source (see https://opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,

because its license has a choice of law clause. According to
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Thanks to the many outside volunteers who have worked under Guido's
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*   as needed. This means that data must always be copied to create
*   the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

```
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/
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==========

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

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

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

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releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes

2.1.3	2.1.2	2002	PSF	yes
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Thanks to the many outside volunteers who have worked under Guido's
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https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
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Python was created in the early 1990s by Guido van Rossum at Stichting

Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

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

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

the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
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1.124 openssl 1.1.1zb

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes

2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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3.1.2	3.1	2010	PSF	yes
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==========
Distutils2 Contributors
==========

The Distutils2 project was started by Tarek Ziad and is currently
maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,
and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
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- Alexandre Vassalotti

- Nadeem Vawda
Metadata-Version: 1.0
Name: setuptools
Version: 0.6c9
Summary: Download, build, install, upgrade, and uninstall Python packages -- easily!
Home-page: http://pypi.org/pypi/setuptools
Author: Phillip J. Eby
Author-email: distutils-sig@python.org
License: PSF or ZPL
Description: ================================
Installing and Using Setuptools
================================

.. contents:: **Table of Contents**

Installation Instructions

Windows
=======

Install setuptools using the provided ``.exe`` installer. If you've previously
installed older versions of setuptools, please delete all ``setuptools*.egg``
and ``setuptools.pth`` files from your system's ``site-packages`` directory
(and any other ``sys.path`` directories) FIRST.

If you are upgrading a previous version of setuptools that was installed using
an ``.exe`` installer,
please be sure to also *uninstall that older version*
via your system's "Add/Remove Programs" feature, BEFORE installing the newer
version.

Once installation is complete, you will find an ``easy_install.exe`` program in
your Python ``Scripts`` subdirectory. Be sure to add this directory to your
``PATH`` environment variable, if you haven't already done so.

RPM-Based Systems
=================

Install setuptools using the provided source RPM. The included ``.spec`` file
assumes you are installing using the default ``python`` executable, and is not
specific to a particular Python version. The ``easy_install`` executable will
be installed to a system ``bin`` directory such as ``/usr/bin``.

If you wish to install to a location other than the default Python

installation's default ``site-packages`` directory (and ``$prefix/bin`` for
scripts), please use the ``.egg``-based
installation approach described in the
following section.

Cygwin, Mac OS X, Linux, Other
==========

1. Download the appropriate egg for your version of Python (e.g.
``setuptools-0.6c9-py2.4.egg``). Do NOT rename it.

2. Run it as if it were a shell script, e.g. ``sh setuptools-0.6c9-py2.4.egg``.
Setuptools will install itself using the matching version of Python (e.g.
``python2.4``), and will place the ``easy_install`` executable in the
default location for installing Python scripts (as determined by the
standard distutils configuration files, or by the Python installation).

If you want to install setuptools to somewhere other than ``site-packages`` or
your default distutils installation locations for libraries and scripts, you
may include EasyInstall command-line options such as ``--prefix``,
``--install-dir``, and so on, following the ``.egg`` filename
on the same
command line. For example::

sh setuptools-0.6c9-py2.4.egg --prefix=~

You can use ``--help`` to get a full options list, but we recommend consulting
the `EasyInstall manual`_ for detailed instructions, especially `the section
on custom installation locations`_.

.. _EasyInstall manual: http://peak.telecommunity.com/DevCenter/EasyInstall
.. _the section on custom installation locations: http://peak.telecommunity.com/DevCenter/EasyInstall#custom-installation-locations

Cygwin Note

If you are trying to install setuptools for the **Windows** version of Python
(as opposed to the Cygwin version that lives in ``/usr/bin``), you must make
sure that an appropriate executable (``python2.3``, ``python2.4``, or
``python2.5``) is on your **Cygwin** ``PATH`` when invoking the egg. For
example, doing the following at a Cygwin bash prompt will install setuptools
for the **Windows** Python found at ``C:\\Python24``::

ln -s /cygdrive/c/Python24/python.exe python2.4
PATH=.:$PATH sh setuptools-0.6c9-py2.4.egg

rm python2.4

Downloads
=========

All setuptools downloads can be found at `the project's home page in the Python
Package Index`_. Scroll to the very bottom of the page to find the links.

.. _the project's home page in the Python Package Index: http://pypi.org/pypi/setuptools

In addition to the PyPI downloads, the development version of ``setuptools``
is available from the `Python SVN sandbox`_, and in-development versions of the
`0.6 branch`_ are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

---
Using
Setuptools and EasyInstall

Here are some of the available manuals, tutorials, and other resources for
learning about Setuptools, Python Eggs, and EasyInstall:

* `The EasyInstall user's guide and reference manual`_
* `The setuptools Developer's Guide`_
* `The pkg_resources API reference`_
* `Package Compatibility Notes`_ (user-maintained)
* `The Internal Structure of Python Eggs`_

Questions, comments, and bug reports should be directed to the `distutils-sig
mailing list`_. If you have written (or know of) any tutorials, documentation,
plug-ins, or other resources for setuptools users, please let us know about
them there, so this reference list can be updated. If you have working,
tested patches to correct problems or add features, you may submit them to
the `setuptools bug tracker`_.

.. _setuptools bug tracker: http://bugs.python.org/setuptools/
.. _Package Compatibility Notes: http://peak.telecommunity.com/DevCenter/PackageNotes
.. _The Internal Structure of Python Eggs: http://peak.telecommunity.com/DevCenter/EggFormats
.. _The setuptools Developer's Guide: http://peak.telecommunity.com/DevCenter/setuptools
.. _The pkg_resources API reference: http://peak.telecommunity.com/DevCenter/PkgResources
.. _The EasyInstall user's guide and reference manual: http://peak.telecommunity.com/DevCenter/EasyInstall
.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

Credits
----

* The original design for the ``.egg`` format and the ``pkg_resources`` API was
co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first
version of ``pkg_resources``, and supplied the OS X operating system version
compatibility algorithm.

* Ian Bicking implemented many early "creature
comfort" features of
easy_install, including support for downloading via Sourceforge and
Subversion repositories. Ian's comments on the Web-SIG about WSGI
application deployment also inspired the concept of "entry points" in eggs,
and he has given talks at PyCon and elsewhere to inform and educate the
community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various
aspects of ``easy_install``, and supplied the doctests for the command-line
``.exe`` wrappers on Windows.

* Phillip J. Eby is the principal author and maintainer of setuptools, and
first proposed the idea of an importable binary distribution format for
Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open
Source Applications Foundation, to provide a plug-in infrastructure for the
Chandler PIM application.
In addition, many OSAF staffers (such as Mike
"Code Bear" Taylor) contributed their time and stress as guinea pigs for the
use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

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1.129 libxml2 2.13.6

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1.130 example 21.12

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Metadata-Version: 2.1
Name: example
Version: 21.12
Summary: UNKNOWN
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: Apache Software License
Platform: UNKNOWN

UNKNOWN

Found in path(s):
* /example-21-12-dist-info-zip/inputdir/packages_extracted/wheel/127/example-21.12.dist-info/METADATA

1.131 expat 2.7.1

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1.132 rsync 3.4.1

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1.136 glib 2.84.1

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1.139 pyproject-hooks 1.2.0

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes

2.2 and above 2.1.1 2001-now
PSF yes

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1.142 typing-extensions 4.12.2

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

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

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1.6.1	1.6	2001	CNRI	yes (2)
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1.143 typeguard 4.3.0

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1.144 vpp_papi 2.0.0

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