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1.2 glibc 2.8

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1.5 jfreechart 1.0.13

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1.6 sed 4.2.2

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1.9 ed 1.9

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bzip2/libbzip2 version 1.0.2 of 30 December 2001

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1.11 openssh 6.2p2

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

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1.15 readline 6.2

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1.17 readline 5.2

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

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

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

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

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

writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in

themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

of these things:

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

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

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

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

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

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

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

permitted, and provided that you do these two things:

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

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

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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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 particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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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
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You should have received a copy of the GNU Library General Public
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Also add information on how to contact you by electronic and paper mail.

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

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

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

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Version 2.1, February 1999

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

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

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

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

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

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

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 on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the

Library.

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

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

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

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or
collective works based on the Library.

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

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

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

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

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

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

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

However,
linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it

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

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

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

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

6. As an exception to the Sections above, you may also 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.

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That's all there is to it!
(This file is under construction.) -*- text -*-

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me,
nickc@redhat.com and I'll correct the situation.

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the documentation, and info on specific files will go into an AUTHORS
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++++++++++++++++

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

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

K. Richard Pixley maintained gas for a while, adding various

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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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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@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

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possible use to the public, we recommend making it free software that
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@end smallexample

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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An interactive user interface displays "Appropriate Legal Notices"
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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
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Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
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"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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physical medium
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b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
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long as you offer spare parts or customer support for that product
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medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
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1.20 jbcrypt 0.4

1.20.1 Available under license :

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Found in path(s):
* /jbcrypt-0-4-sources-5-jar/org/mindrot/jbcrypt/BCrypt.java

1.21 libmnl 1.0.3

1.21.1 Available under license :

30 atime=1337191922.583566431
30 ctime=1338052482.808834269

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1.24 diffutils 3.3

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scriptversion=2012-06-27.10; # UTC

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1.25 findutils 4.6.0

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1.27 dhcp 4.3.2

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

==========

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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1.28 findutils 4.5.14

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

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

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---
*/

```
#ifndef _PCRE_H
#define _PCRE_H

/*
 The current PCRE version information. */

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

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

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

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

#ifndef PCRE_EXP_DECL
#  ifdef __cplusplus
#    define PCRE_EXP_DECL  extern "C"
#  else
#
   define PCRE_EXP_DECL  extern
#  endif
#endif

#ifdef __cplusplus
#  ifndef PCRECPP_EXP_DECL
#    define PCRECPP_EXP_DECL  extern
#  endif
#  ifndef PCRECPP_EXP_DEFN
#    define PCRECPP_EXP_DEFN
#  endif
#endif

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

#include <stdlib.h>

/* Allow for C++ users */

#ifdef __cplusplus
extern "C" {
#endif

/* Options. Some are compile-time only, some are run-time only, and some are
both, so we keep them all distinct. However, almost all the bits in the options
```

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

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

```
#define PCRE_UCP            0x20000000  /* Compile, used in exec, DFA exec */

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

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

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

#define PCRE_UTF8_ERR0             0
#define PCRE_UTF8_ERR1             1
#define PCRE_UTF8_ERR2             2
#define PCRE_UTF8_ERR3             3
#define PCRE_UTF8_ERR4             4
```

```
#define PCRE_UTF8_ERR5          5
#define PCRE_UTF8_ERR6          6
#define PCRE_UTF8_ERR7          7
#define PCRE_UTF8_ERR8          8
#define PCRE_UTF8_ERR9          9
#define PCRE_UTF8_ERR10         10
#define PCRE_UTF8_ERR11         11
#define PCRE_UTF8_ERR12         12
#define PCRE_UTF8_ERR13         13
#define PCRE_UTF8_ERR14         14
#define PCRE_UTF8_ERR15         15
#define PCRE_UTF8_ERR16         16
#define PCRE_UTF8_ERR17
          17
#define PCRE_UTF8_ERR18         18
#define PCRE_UTF8_ERR19         19
#define PCRE_UTF8_ERR20         20
#define PCRE_UTF8_ERR21         21

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

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

/* Request types for pcre_fullinfo() */

#define PCRE_INFO_OPTIONS           0
#define PCRE_INFO_SIZE              1
#define PCRE_INFO_CAPTURECOUNT      2
#define PCRE_INFO_BACKREFMAX        3
#define PCRE_INFO_FIRSTBYTE         4
#define PCRE_INFO_FIRSTCHAR         4  /* For backwards compatibility */
#define PCRE_INFO_FIRSTTABLE        5
#define PCRE_INFO_LASTLITERAL       6
#define PCRE_INFO_NAMEENTRYSIZE     7
#define PCRE_INFO_NAMECOUNT         8
#define PCRE_INFO_NAMETABLE         9
#define PCRE_INFO_STUDYSIZE        10
#define PCRE_INFO_DEFAULT_TABLES
   11
#define PCRE_INFO_OKPARTIAL        12
#define PCRE_INFO_JCHANGED         13
#define PCRE_INFO_HASCRORLF        14
#define PCRE_INFO_MINLENGTH        15
#define PCRE_INFO_JIT              16
```

```
#define PCRE_INFO_JITSIZE          17
#define PCRE_INFO_MAXLOOKBEHIND    18

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

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

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

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

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

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

/* Types */

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

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

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

```
 struct real_pcre_jit_stack pcre_jit_stack;

struct real_pcre16_jit_stack;     /* declaration; the definition is private  */
typedef struct real_pcre16_jit_stack pcre16_jit_stack;

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

#ifndef PCRE_SPTR16
#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif

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

#ifndef PCRE_SPTR
#define PCRE_SPTR const char *
#endif

/* The structure for passing additional data to pcre_exec(). This is defined in
such as way as to be extensible. Always add new fields at the end, in order to
remain compatible. */

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

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

typedef struct pcre16_extra {
 unsigned long int flags;        /* Bits for which fields are set */
 void *study_data;              /* Opaque data from pcre_study() */
 unsigned long int match_limit;  /* Maximum number of calls to match() */
 void *callout_data;            /* Data passed back in callouts */
 const unsigned char
```

```
 *tables;    /* Pointer to character tables */
 unsigned long int match_limit_recursion; /* Max recursive calls to match() */
 PCRE_UCHAR16 **mark;            /* For passing back a mark pointer */
 void *executable_jit;           /* Contains a pointer to a compiled jit code */
} pcre16_extra;

/* The structure for passing out data via the pcre_callout_function. We use a
structure so that new fields can be added on the end in future versions,
without changing the API of the function, thereby allowing old clients to work
without modification. */

typedef struct pcre_callout_block {
 int          version;           /* Identifies version of block */
 /* ------------------------ Version 0 ------------------------------- */
 int          callout_number;    /* Number compiled into pattern */
 int         *offset_vector;     /* The offset vector */
 PCRE_SPTR    subject;           /* The subject being matched */
 int          subject_length;    /* The length of the subject */
 int
       start_match;       /* Offset to start of this match attempt */
 int          current_position;  /* Where we currently are in the subject */
 int          capture_top;       /* Max current capture */
 int          capture_last;      /* Most recently closed capture */
 void         *callout_data;     /* Data passed in with the call */
 /* ------------------- Added for Version 1 -------------------------- */
 int          pattern_position;  /* Offset to next item in the pattern */
 int          next_item_length;  /* Length of next item in the pattern */
 /* ------------------- Added for Version 2 -------------------------- */
 const unsigned char *mark;      /* Pointer to current mark or NULL    */
 /* ------------------------------------------------------------------ */
} pcre_callout_block;

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

typedef struct pcre16_callout_block {
 int          version;           /* Identifies version of block */
 /* ------------------------
 Version 0 ------------------------------- */
 int          callout_number;    /* Number compiled into pattern */
 int         *offset_vector;     /* The offset vector */
 PCRE_SPTR16  subject;           /* The subject being matched */
 int          subject_length;    /* The length of the subject */
 int          start_match;       /* Offset to start of this match attempt */
 int          current_position;  /* Where we currently are in the subject */
 int          capture_top;       /* Max current capture */
 int          capture_last;      /* Most recently closed capture */
 void         *callout_data;     /* Data passed in with the call */
 /* ------------------- Added for Version 1 -------------------------- */
```

```
 int         pattern_position;  /* Offset to next item in the pattern */
 int         next_item_length;  /* Length of next item in the pattern */
 /* ------------------- Added for Version 2 ------------------------- */
 const PCRE_UCHAR16 *mark;
      /* Pointer to current mark or NULL    */
 /* ----------------------------------------------------------------- */
} pcre16_callout_block;

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

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

PCRE_EXP_DECL void *(*pcre16_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre16_free)(void *);
PCRE_EXP_DECL void *(*pcre16_stack_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre16_stack_free)(void *);
PCRE_EXP_DECL int   (*pcre16_callout)(pcre16_callout_block *);
#else
  /* VPCOMPAT */
PCRE_EXP_DECL void *pcre_malloc(size_t);
PCRE_EXP_DECL void  pcre_free(void *);
PCRE_EXP_DECL void *pcre_stack_malloc(size_t);
PCRE_EXP_DECL void  pcre_stack_free(void *);
PCRE_EXP_DECL int   pcre_callout(pcre_callout_block *);

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

/* User defined callback which provides a stack just before the match starts. */

typedef pcre_jit_stack *(*pcre_jit_callback)(void *);
typedef pcre16_jit_stack *(*pcre16_jit_callback)(void *);

/* Exported PCRE functions */
```

```
PCRE_EXP_DECL pcre *pcre_compile(const char *, int, const char **, int *,
              const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
              const unsigned char *);
PCRE_EXP_DECL pcre *pcre_compile2(const
 char *, int, int *, const char **,
              int *, const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *, const char **,
              int *, const unsigned char *);
PCRE_EXP_DECL int  pcre_config(int, void *);
PCRE_EXP_DECL int  pcre16_config(int, void *);
PCRE_EXP_DECL int  pcre_copy_named_substring(const pcre *, const char *,
              int *, int, const char *, char *, int);
PCRE_EXP_DECL int  pcre16_copy_named_substring(const pcre16 *, PCRE_SPTR16,
              int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int  pcre_copy_substring(const char *, int *, int, int,
              char *, int);
PCRE_EXP_DECL int  pcre16_copy_substring(PCRE_SPTR16, int *, int, int,
              PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int  pcre_dfa_exec(const pcre *, const pcre_extra *,
              const char *, int, int, int, int *, int , int *, int);
PCRE_EXP_DECL int  pcre16_dfa_exec(const pcre16 *, const
 pcre16_extra *,
              PCRE_SPTR16, int, int, int, int *, int , int *, int);
PCRE_EXP_DECL int  pcre_exec(const pcre *, const pcre_extra *, PCRE_SPTR,
               int, int, int, int *, int);
PCRE_EXP_DECL int  pcre16_exec(const pcre16 *, const pcre16_extra *,
               PCRE_SPTR16, int, int, int, int *, int);
PCRE_EXP_DECL void pcre_free_substring(const char *);
PCRE_EXP_DECL void pcre16_free_substring(PCRE_SPTR16);
PCRE_EXP_DECL void pcre_free_substring_list(const char **);
PCRE_EXP_DECL void pcre16_free_substring_list(PCRE_SPTR16 *);
PCRE_EXP_DECL int  pcre_fullinfo(const pcre *, const pcre_extra *, int,
              void *);
PCRE_EXP_DECL int  pcre16_fullinfo(const pcre16 *, const pcre16_extra *, int,
              void *);
PCRE_EXP_DECL int  pcre_get_named_substring(const pcre *, const char *,
              int *, int, const char *, const char **);
PCRE_EXP_DECL int  pcre16_get_named_substring(const pcre16 *, PCRE_SPTR16,
              int
 *, int, PCRE_SPTR16, PCRE_SPTR16 *);
PCRE_EXP_DECL int  pcre_get_stringnumber(const pcre *, const char *);
PCRE_EXP_DECL int  pcre16_get_stringnumber(const pcre16 *, PCRE_SPTR16);
PCRE_EXP_DECL int  pcre_get_stringtable_entries(const pcre *, const char *,
              char **, char **);
PCRE_EXP_DECL int  pcre16_get_stringtable_entries(const pcre16 *, PCRE_SPTR16,
              PCRE_UCHAR16 **, PCRE_UCHAR16 **);
PCRE_EXP_DECL int  pcre_get_substring(const char *, int *, int, int,
```

```
            const char **);
PCRE_EXP_DECL int  pcre16_get_substring(PCRE_SPTR16, int *, int, int,
            PCRE_SPTR16 *);
PCRE_EXP_DECL int  pcre_get_substring_list(const char *, int *, int,
            const char ***);
PCRE_EXP_DECL int  pcre16_get_substring_list(PCRE_SPTR16, int *, int,
            PCRE_SPTR16 **);
PCRE_EXP_DECL const unsigned char *pcre_maketables(void);
PCRE_EXP_DECL const unsigned char *pcre16_maketables(void);
PCRE_EXP_DECL int  pcre_refcount(pcre *,
 int);
PCRE_EXP_DECL int  pcre16_refcount(pcre16 *, int);
PCRE_EXP_DECL pcre_extra *pcre_study(const pcre *, int, const char **);
PCRE_EXP_DECL pcre16_extra *pcre16_study(const pcre16 *, int, const char **);
PCRE_EXP_DECL void pcre_free_study(pcre_extra *);
PCRE_EXP_DECL void pcre16_free_study(pcre16_extra *);
PCRE_EXP_DECL const char *pcre_version(void);
PCRE_EXP_DECL const char *pcre16_version(void);

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

/* JIT compiler related functions. */

PCRE_EXP_DECL pcre_jit_stack *pcre_jit_stack_alloc(int, int);
PCRE_EXP_DECL pcre16_jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXP_DECL void pcre_jit_stack_free(pcre_jit_stack
 *);
PCRE_EXP_DECL void pcre16_jit_stack_free(pcre16_jit_stack *);
PCRE_EXP_DECL void pcre_assign_jit_stack(pcre_extra *,
            pcre_jit_callback, void *);
PCRE_EXP_DECL void pcre16_assign_jit_stack(pcre16_extra *,
            pcre16_jit_callback, void *);

#ifdef __cplusplus
}  /* extern "C" */
#endif

#endif /* End of pcre.h */
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```

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That's all there is to it!
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/*
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* files for a list of changes. These files are distributed with
* GLib at ftp://ftp.gtk.org/pub/gtk/.

*/

```
#ifndef __GMODULE_H__
#define __GMODULE_H__

#include <glib.h>

G_BEGIN_DECLS

/* exporting and importing functions, this is special cased
* to feature Windows dll stubs.
*/
#define G_MODULE_IMPORT  extern
#ifdef G_PLATFORM_WIN32
#  define G_MODULE_EXPORT  __declspec(dllexport)
#else /* !G_PLATFORM_WIN32 */
#  define G_MODULE_EXPORT
#endif /* !G_PLATFORM_WIN32 */

typedef enum
{
 G_MODULE_BIND_LAZY = 1 << 0,
 G_MODULE_BIND_LOCAL = 1 << 1,
 G_MODULE_BIND_MASK = 0x03
} GModuleFlags;

typedef struct _GModule    GModule;
typedef const gchar* (*GModuleCheckInit) (GModule *module);
typedef void      (*GModuleUnload)  (GModule *module);

/* return TRUE if dynamic module loading is supported */
GLIB_AVAILABLE_IN_ALL
gboolean g_module_supported    (void) G_GNUC_CONST;

/* open a module 'file_name' and return handle, which is NULL on error */
GLIB_AVAILABLE_IN_ALL
GModule*             g_module_open         (const gchar  *file_name,
        GModuleFlags  flags);

/* close a previously
 opened module, returns TRUE on success */
GLIB_AVAILABLE_IN_ALL
gboolean             g_module_close        (GModule      *module);

/* make a module resident so g_module_close on it will be ignored */
GLIB_AVAILABLE_IN_ALL
void                 g_module_make_resident (GModule      *module);

/* query the last module error as a string */
GLIB_AVAILABLE_IN_ALL
```

```
const gchar *        g_module_error        (void);

/* retrieve a symbol pointer from 'module', returns TRUE on success */
GLIB_AVAILABLE_IN_ALL
gboolean             g_module_symbol       (GModule     *module,
        const gchar  *symbol_name,
        gpointer     *symbol);

/* retrieve the file name from an existing module */
GLIB_AVAILABLE_IN_ALL
const gchar *        g_module_name         (GModule     *module);

/* Build the actual file name containing a module. 'directory' is the
* directory where the module file is supposed to be, or NULL or empty
* in which case it should either be in the current directory
 or, on
* some operating systems, in some standard place, for instance on the
* PATH. Hence, to be absoultely sure to get the correct module,
* always pass in a directory. The file name consists of the directory,
* if supplied, and 'module_name' suitably decorated according to
* the operating system's conventions (for instance lib*.so or *.dll).
*
* No checks are made that the file exists, or is of correct type.
*/
GLIB_AVAILABLE_IN_ALL
gchar*               g_module_build_path    (const gchar  *directory,
        const gchar  *module_name);


#ifndef __GTK_DOC_IGNORE__
#ifdef G_OS_WIN32
#define g_module_open g_module_open_utf8
#define g_module_name g_module_name_utf8

GLIB_AVAILABLE_IN_ALL
GModule *    g_module_open_utf8 (const gchar  *file_name,
                                 GModuleFlags  flags);
GLIB_AVAILABLE_IN_ALL
const gchar *g_module_name_utf8 (GModule      *module);
#endif
#endif

G_END_DECLS

#endif /* __GMODULE_H__ */
```

1.30 glibc 2.22

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@center Version 2.1, February 1999

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@subheading END OF TERMS AND CONDITIONS

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

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file to most effectively
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@end
smallexample

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Ty Coon, President of Vice

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When a "work that uses the Library" uses material from a header file

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the work with the complete corresponding
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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 Program.

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

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1.31 grep 2.21

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1.32 libpcap 1.6.2

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1.33 libusb 1.0.19

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1.35 tar 1.28

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/* number.c: Implements arbitrary precision numbers. */
/*
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              Western Washington University
              Bellingham, WA 98226-9062

**/

#include <stdio.h>

```
#include <config.h>
#include <number.h>
#include <assert.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>/* Prototypes needed for external utility routines. */

#define bc_rt_warn rt_warn
#define bc_rt_error rt_error
#define bc_out_of_memory out_of_memory

_PROTOTYPE(void rt_warn, (char *mesg ,...));
_PROTOTYPE(void rt_error, (char *mesg ,...));
_PROTOTYPE(void out_of_memory, (void));

/* Storage used for special numbers. */
bc_num _zero_;
bc_num _one_;
bc_num _two_;

static bc_num _bc_Free_list = NULL;

/* new_num allocates a number and sets fields to known values. */

bc_num
bc_new_num (length, scale)
    int length, scale;
{
 bc_num temp;

 if (_bc_Free_list != NULL) {
   temp = _bc_Free_list;
   _bc_Free_list = temp->n_next;
 } else {
   temp = (bc_num) malloc (sizeof(bc_struct));
   if (temp == NULL) bc_out_of_memory ();
 }
 temp->n_sign = PLUS;
 temp->n_len = length;
 temp->n_scale = scale;
 temp->n_refs = 1;
 temp->n_ptr = (char *) malloc (length+scale);
 if (temp->n_ptr == NULL) bc_out_of_memory();
 temp->n_value = temp->n_ptr;
 memset (temp->n_ptr, 0, length+scale);
 return temp;
}
```

```
/* "Frees" a bc_num NUM.  Actually decreases reference count and only
  frees the storage if reference count is zero. */

void
bc_free_num (num)
   bc_num *num;
{
 if (*num == NULL) return;
 (*num)->n_refs--;
 if ((*num)->n_refs == 0) {
   if ((*num)->n_ptr)
     free ((*num)->n_ptr);
   (*num)->n_next = _bc_Free_list;
   _bc_Free_list = *num;
 }
 *num = NULL;
}


/* Intitialize the number package! */

void
bc_init_numbers ()
{
 _zero_ = bc_new_num (1,0);
 _one_  = bc_new_num (1,0);
 _one_->n_value[0] = 1;
 _two_  = bc_new_num (1,0);
 _two_->n_value[0] = 2;
}


/* Make a copy of a number!  Just
 increments the reference count! */

bc_num
bc_copy_num (num)
    bc_num num;
{
 num->n_refs++;
 return num;
}


/* Initialize a number NUM by making it a copy of zero. */

void
bc_init_num (num)
```

```
    bc_num *num;
{
 *num = bc_copy_num (_zero_);
}

/* For many things, we may have leading zeros in a number NUM.
  _bc_rm_leading_zeros just moves the data "value" pointer to the
  correct place and adjusts the length. */

static void
_bc_rm_leading_zeros (num)
    bc_num num;
{
 /* We can move n_value to point to the first non zero digit! */
 while (*num->n_value == 0 && num->n_len > 1) {
   num->n_value++;
   num->n_len--;
 }
}


/* Compare two bc numbers.  Return value is 0 if equal, -1 if N1 is less
  than N2 and +1 if N1 is greater than N2.  If USE_SIGN is false, just
  compare the magnitudes. */

static int
_bc_do_compare (n1, n2, use_sign, ignore_last)
    bc_num n1, n2;
    int use_sign;
    int ignore_last;
{
 char *n1ptr, *n2ptr;
 int  count;

 /* First, compare
 signs. */
 if (use_sign && n1->n_sign != n2->n_sign)
   {
     if (n1->n_sign == PLUS)
 return (1); /* Positive N1 > Negative N2 */
     else
 return (-1); /* Negative N1 < Positive N1 */
   }

 /* Now compare the magnitude. */
 if (n1->n_len != n2->n_len)
   {
     if (n1->n_len > n2->n_len)
```

```
{
  /* Magnitude of n1 > n2. */
  if (!use_sign || n1->n_sign == PLUS)
    return (1);
  else
    return (-1);
}
   else
{
  /* Magnitude of n1 < n2. */
  if (!use_sign || n1->n_sign == PLUS)
    return (-1);
  else
    return (1);
}
  }

/* If we get here, they have the same number of integer digits.
   check the integer part and the equal length part of the fraction. */
count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
n1ptr = n1->n_value;
n2ptr = n2->n_value;

while ((count > 0) && (*n1ptr == *n2ptr))
  {
    n1ptr++;
    n2ptr++;
    count--;
  }
if (ignore_last && count == 1 && n1->n_scale == n2->n_scale)
  return (0);
if (count !=
0)
  {
    if (*n1ptr > *n2ptr)
{
  /* Magnitude of n1 > n2. */
  if (!use_sign || n1->n_sign == PLUS)
    return (1);
  else
    return (-1);
}
   else
{
  /* Magnitude of n1 < n2. */
  if (!use_sign || n1->n_sign == PLUS)
    return (-1);
  else
```

```
    return (1);
 }
  }

 /* They are equal up to the last part of the equal part of the fraction. */
 if (n1->n_scale != n2->n_scale)
  {
    if (n1->n_scale > n2->n_scale)
 {
  for (count = n1->n_scale-n2->n_scale; count>0; count--)
    if (*n1ptr++ != 0)
      {
 /* Magnitude of n1 > n2. */
 if (!use_sign || n1->n_sign == PLUS)
   return (1);
 else
   return (-1);
      }
 }
    else
 {
  for (count = n2->n_scale-n1->n_scale; count>0; count--)
    if (*n2ptr++ != 0)
      {
 /* Magnitude of n1 < n2. */
 if (!use_sign || n1->n_sign == PLUS)
   return (-1);
 else
   return (1);
      }
 }
  }

 /* They must be equal! */
 return (0);
}


/* This is the "user callable" routine to compare numbers
 N1 and N2. */

int
bc_compare (n1, n2)
    bc_num n1, n2;
{
 return _bc_do_compare (n1, n2, TRUE, FALSE);
}
```

```
/* In some places we need to check if the number is negative. */

char
bc_is_neg (num)
    bc_num num;
{
 return num->n_sign == MINUS;
}

/* In some places we need to check if the number NUM is zero. */

char
bc_is_zero (num)
    bc_num num;
{
 int  count;
 char *nptr;

 /* Quick check. */
 if (num == _zero_) return TRUE;

 /* Initialize */
 count = num->n_len + num->n_scale;
 nptr = num->n_value;

 /* The check */
 while ((count > 0) && (*nptr++ == 0)) count--;

 if (count != 0)
   return FALSE;
 else
   return TRUE;
}

/* In some places we need to check if the number NUM is almost zero.
  Specifically, all but the last digit is 0 and the last digit is 1.
  Last digit is defined by scale. */

char
bc_is_near_zero (num, scale)
    bc_num num;
    int scale;
{
 int  count;
 char *nptr;

 /* Error checking */
 if (scale > num->n_scale)
```

```
  scale = num->n_scale;

 /* Initialize */
 count = num->n_len + scale;
 nptr = num->n_value;

 /* The check */
 while ((count > 0) && (*nptr++ == 0)) count--;

 if (count != 0 && (count != 1 || *--nptr != 1))
  return FALSE;
 else
  return TRUE;
}


/* Perform addition: N1 is added to N2 and the value is
  returned.  The signs of N1 and N2 are ignored.
  SCALE_MIN is to set the minimum scale of the result. */

static bc_num
_bc_do_add (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
 bc_num sum;
 int sum_scale, sum_digits;
 char *n1ptr, *n2ptr, *sumptr;
 int carry, n1bytes, n2bytes;
 int count;

 /* Prepare sum. */
 sum_scale = MAX (n1->n_scale, n2->n_scale);
 sum_digits = MAX (n1->n_len, n2->n_len) + 1;
 sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));

 /* Zero extra digits made by scale_min. */
 if (scale_min > sum_scale)
   {
     sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
     for (count = scale_min - sum_scale; count > 0; count--)
 *sumptr++
 = 0;
   }

 /* Start with the fraction part.  Initialize the pointers. */
 n1bytes = n1->n_scale;
 n2bytes = n2->n_scale;
```

```
n1ptr = (char *) (n1->n_value + n1->n_len + n1bytes - 1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2bytes - 1);
sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);

/* Add the fraction part.  First copy the longer fraction.*/
if (n1bytes != n2bytes)
  {
    if (n1bytes > n2bytes)
while (n1bytes>n2bytes)
  { *sumptr-- = *n1ptr--; n1bytes--;}
    else
while (n2bytes>n1bytes)
  { *sumptr-- = *n2ptr--; n2bytes--;}
  }

/* Now add the remaining fraction part and equal size integer parts. */
n1bytes += n1->n_len;
n2bytes += n2->n_len;
carry = 0;
while ((n1bytes > 0) && (n2bytes > 0))
  {
    *sumptr = *n1ptr-- + *n2ptr-- + carry;
    if (*sumptr > (BASE-1))
{
   carry = 1;
   *sumptr -= BASE;
}
    else
carry = 0;
    sumptr--;
    n1bytes--;
    n2bytes--;
  }

/* Now add carry the
longer integer part. */
if (n1bytes == 0)
  { n1bytes = n2bytes; n1ptr = n2ptr; }
while (n1bytes-- > 0)
  {
    *sumptr = *n1ptr-- + carry;
    if (*sumptr > (BASE-1))
{
   carry = 1;
   *sumptr -= BASE;
 }
    else
carry = 0;
```

```
    sumptr--;
  }

 /* Set final carry. */
 if (carry == 1)
   *sumptr += 1;

 /* Adjust sum and return. */
 _bc_rm_leading_zeros (sum);
 return sum;
}


/* Perform subtraction: N2 is subtracted from N1 and the value is
  returned.  The signs of N1 and N2 are ignored.  Also, N1 is
  assumed to be larger than N2.  SCALE_MIN is the minimum scale
  of the result. */

static bc_num
_bc_do_sub (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
 bc_num diff;
 int diff_scale, diff_len;
 int min_scale, min_len;
 char *n1ptr, *n2ptr, *diffptr;
 int borrow, count, val;

 /* Allocate temporary storage. */
 diff_len = MAX (n1->n_len, n2->n_len);
 diff_scale = MAX (n1->n_scale, n2->n_scale);
 min_len = MIN  (n1->n_len, n2->n_len);
  min_scale = MIN (n1->n_scale, n2->n_scale);
 diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));

 /* Zero extra digits made by scale_min. */
 if (scale_min > diff_scale)
   {
     diffptr = (char *) (diff->n_value + diff_len + diff_scale);
     for (count = scale_min - diff_scale; count > 0; count--)
 *diffptr++ = 0;
   }

 /* Initialize the subtract. */
 n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale -1);
 n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale -1);
 diffptr = (char *) (diff->n_value + diff_len + diff_scale -1);
```

```
/* Subtract the numbers. */
borrow = 0;

/* Take care of the longer scaled number. */
if (n1->n_scale != min_scale)
  {
    /* n1 has the longer scale */
    for (count = n1->n_scale - min_scale; count > 0; count--)
*diffptr-- = *n1ptr--;
  }
else
  {
    /* n2 has the longer scale */
    for (count = n2->n_scale - min_scale; count > 0; count--)
{
  val = - *n2ptr-- - borrow;
  if (val < 0)

{
      val += BASE;
      borrow = 1;
    }
  else
    borrow = 0;
  *diffptr-- = val;
}
  }

/* Now do the equal length scale and integer parts. */

for (count = 0; count < min_len + min_scale; count++)
  {
    val = *n1ptr-- - *n2ptr-- - borrow;
    if (val < 0)
{
  val += BASE;
  borrow = 1;
}
    else
borrow = 0;
    *diffptr-- = val;
  }

/* If n1 has more digits then n2, we now do that subtract. */
if (diff_len != min_len)
  {
    for (count = diff_len - min_len; count > 0; count--)
```

```
{
  val = *n1ptr-- - borrow;
  if (val < 0)
    {
      val += BASE;
      borrow = 1;
    }
  else
    borrow = 0;
  *diffptr-- = val;
}
  }

 /* Clean up and return. */
 _bc_rm_leading_zeros (diff);
 return diff;
}


/* Here is the full subtract routine that takes care of negative numbers.
  N2 is subtracted from N1 and the result placed in RESULT.  SCALE_MIN
  is the minimum scale for the result. */

void
bc_sub (n1, n2, result, scale_min)

    bc_num n1, n2, *result;
    int scale_min;
{
 bc_num diff = NULL;
 int cmp_res;
 int res_scale;

 if (n1->n_sign != n2->n_sign)
   {
     diff = _bc_do_add (n1, n2, scale_min);
     diff->n_sign = n1->n_sign;
   }
 else
   {
     /* subtraction must be done. */
     /* Compare magnitudes. */
     cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
     switch (cmp_res)
 {
 case -1:
   /* n1 is less than n2, subtract n1 from n2. */
   diff = _bc_do_sub (n2, n1, scale_min);
```

```
  diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);
  break;
 case  0:
  /* They are equal! return zero! */
  res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
  diff = bc_new_num (1, res_scale);
  memset (diff->n_value, 0, res_scale+1);
  break;
 case  1:
  /* n2 is less than n1, subtract n2 from n1. */
  diff = _bc_do_sub (n1, n2, scale_min);
  diff->n_sign = n1->n_sign;
  break;
 }
  }

 /* Clean up and return. */
 bc_free_num (result);
 *result = diff;
}


/* Here is the
 full add routine that takes care of negative numbers.
  N1 is added to N2 and the result placed into RESULT.  SCALE_MIN
  is the minimum scale for the result. */

void
bc_add (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
 bc_num sum = NULL;
 int cmp_res;
 int res_scale;

 if (n1->n_sign == n2->n_sign)
   {
     sum = _bc_do_add (n1, n2, scale_min);
     sum->n_sign = n1->n_sign;
   }
 else
   {
     /* subtraction must be done. */
     cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);  /* Compare magnitudes. */
     switch (cmp_res)
 {
 case -1:
```

```
  /* n1 is less than n2, subtract n1 from n2. */
  sum = _bc_do_sub (n2, n1, scale_min);
  sum->n_sign = n2->n_sign;
  break;
 case  0:
  /* They are equal! return zero with the correct scale! */
  res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
  sum = bc_new_num (1, res_scale);
  memset (sum->n_value, 0, res_scale+1);
  break;
 case  1:
  /* n2 is less than n1, subtract n2 from
 n1. */
  sum = _bc_do_sub (n1, n2, scale_min);
  sum->n_sign = n1->n_sign;
 }
  }

 /* Clean up and return. */
 bc_free_num (result);
 *result = sum;
}

/* Recursive vs non-recursive multiply crossover ranges. */
#if defined(MULDIGITS)
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
#endif

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

static bc_num
new_sub_num (length, scale, value)
    int length, scale;
    char *value;
{
 bc_num temp;

 if (_bc_Free_list != NULL) {
  temp = _bc_Free_list;
  _bc_Free_list = temp->n_next;
 } else {
  temp = (bc_num) malloc (sizeof(bc_struct));
  if (temp == NULL) bc_out_of_memory ();
```

```
 }
 temp->n_sign = PLUS;
 temp->n_len = length;
 temp->n_scale = scale;
 temp->n_refs = 1;
 temp->n_ptr = NULL;
 temp->n_value = value;
 return temp;
}

static void
_bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
      int full_scale)
{
  char *n1ptr, *n2ptr, *pvptr;
 char *n1end, *n2end;  /* To the end of n1 and n2. */
 int indx, sum, prodlen;

 prodlen = n1len+n2len+1;

 *prod = bc_new_num (prodlen, 0);

 n1end = (char *) (n1->n_value + n1len - 1);
 n2end = (char *) (n2->n_value + n2len - 1);
 pvptr = (char *) ((*prod)->n_value + prodlen - 1);
 sum = 0;

 /* Here is the loop... */
 for (indx = 0; indx < prodlen-1; indx++)
   {
     n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));
     n2ptr = (char *) (n2end - MIN(indx, n2len-1));
     while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))
 sum += *n1ptr-- * *n2ptr++;
     *pvptr-- = sum % BASE;
     sum = sum / BASE;
   }
 *pvptr = sum;
}



/* A special adder/subtractor for the recursive divide and conquer
  multiply algorithm.  Note: if sub is called, accum must
  be larger that what is being subtracted.  Also, accum and val
  must have n_scale = 0.  (e.g. they must look like integers. *) */
static void
_bc_shift_addsub (bc_num accum, bc_num val, int
```

```
shift, int sub)
{
signed char *accp, *valp;
int  count, carry;

count = val->n_len;
if (val->n_value[0] == 0)
  count--;
assert (accum->n_len+accum->n_scale >= shift+count);

/* Set up pointers and others */
accp = (signed char *)(accum->n_value +
   accum->n_len + accum->n_scale - shift - 1);
valp = (signed char *)(val->n_value + val->n_len - 1);
carry = 0;

if (sub) {
  /* Subtraction, carry is really borrow. */
  while (count--) {
    *accp -= *valp-- + carry;
    if (*accp < 0) {
carry = 1;
      *accp-- += BASE;
    } else {
carry = 0;
accp--;
    }
  }
  while (carry) {
    *accp -= carry;
    if (*accp < 0)
*accp-- += BASE;
    else
carry = 0;
  }
} else {
  /* Addition */
  while (count--) {
    *accp += *valp-- + carry;
    if (*accp > (BASE-1)) {
carry = 1;
      *accp-- -= BASE;
    } else {
carry = 0;
accp--;
    }
  }
  while (carry) {
```

```
    *accp += carry;
    if (*accp > (BASE-1))
 *accp--
 -= BASE;
    else
 carry = 0;
  }
 }
}

/* Recursive divide and conquer multiply algorithm.
  Based on
  Let u = u0 + u1*(b^n)
  Let v = v0 + v1*(b^n)
  Then uv = (B^2n+B^n)*u1*v1 + B^n*(u1-u0)*(v0-v1) + (B^n+1)*u0*v0

  B is the base of storage, number of digits in u1,u0 close to equal.
*/
static void
_bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod,
      int full_scale)
{
 bc_num u0, u1, v0, v1;
 int u0len, v0len;
 bc_num m1, m2, m3, d1, d2;
 int n, prodlen, m1zero;
 int d1len, d2len;

 /* Base case? */
 if ((ulen+vlen) < mul_base_digits
    || ulen < MUL_SMALL_DIGITS
    || vlen < MUL_SMALL_DIGITS ) {
  _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
  return;
 }

 /* Calculate n -- the u and v split point in digits. */
 n = (MAX(ulen, vlen)+1) / 2;

 /* Split u and v. */
 if (ulen < n) {
  u1 = bc_copy_num (_zero_);
  u0 = new_sub_num (ulen,0, u->n_value);
 } else {
  u1 = new_sub_num (ulen-n, 0, u->n_value);
  u0 =
 new_sub_num (n, 0, u->n_value+ulen-n);
 }
```

```
if (vlen < n) {
  v1 = bc_copy_num (_zero_);
  v0 = new_sub_num (vlen,0, v->n_value);
} else {
  v1 = new_sub_num (vlen-n, 0, v->n_value);
  v0 = new_sub_num (n, 0, v->n_value+vlen-n);
  }
_bc_rm_leading_zeros (u1);
_bc_rm_leading_zeros (u0);
u0len = u0->n_len;
_bc_rm_leading_zeros (v1);
_bc_rm_leading_zeros (v0);
v0len = v0->n_len;

m1zero = bc_is_zero(u1) || bc_is_zero(v1);

/* Calculate sub results ... */

bc_init_num(&d1);
bc_init_num(&d2);
bc_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
bc_sub (v0, v1, &d2, 0);
d2len = d2->n_len;



/* Do recursive multiplies and shifted adds. */
if (m1zero)
  m1 = bc_copy_num (_zero_);
else
  _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

if (bc_is_zero(d1) || bc_is_zero(d2))
  m2 = bc_copy_num (_zero_);
else
  _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);

if (bc_is_zero(u0) || bc_is_zero(v0))
  m3 = bc_copy_num (_zero_);
else
  _bc_rec_mul
(u0, u0->n_len, v0, v0->n_len, &m3, 0);

/* Initialize product */
prodlen = ulen+vlen+1;
*prod = bc_new_num(prodlen, 0);

if (!m1zero) {
```

```
  _bc_shift_addsub (*prod, m1, 2*n, 0);
  _bc_shift_addsub (*prod, m1, n, 0);
 }
 _bc_shift_addsub (*prod, m3, n, 0);
 _bc_shift_addsub (*prod, m3, 0, 0);
 _bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);

 /* Now clean up! */
 bc_free_num (&u1);
 bc_free_num (&u0);
 bc_free_num (&v1);
 bc_free_num (&m1);
 bc_free_num (&v0);
 bc_free_num (&m2);
 bc_free_num (&m3);
 bc_free_num (&d1);
 bc_free_num (&d2);
}

/* The multiply routine.  N2 times N1 is put int PROD with the scale of
  the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)).
  */

void
bc_multiply (n1, n2, prod, scale)
    bc_num n1, n2, *prod;
    int scale;
{
 bc_num pval;
 int len1, len2;
 int full_scale, prod_scale;

 /* Initialize things. */
 len1 = n1->n_len + n1->n_scale;
 len2 = n2->n_len + n2->n_scale;
 full_scale
 = n1->n_scale + n2->n_scale;
 prod_scale = MIN(full_scale,MAX(scale,MAX(n1->n_scale,n2->n_scale)));

 /* Do the multiply */
 _bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);

 /* Assign to prod and clean up the number. */
 pval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
 pval->n_value = pval->n_ptr;
 pval->n_len = len2 + len1 + 1 - full_scale;
 pval->n_scale = prod_scale;
 _bc_rm_leading_zeros (pval);
```

```
 if (bc_is_zero (pval))
   pval->n_sign = PLUS;
 bc_free_num (prod);
 *prod = pval;
}

/* Some utility routines for the divide:  First a one digit multiply.
  NUM (with SIZE digits) is multiplied by DIGIT and the result is
  placed into RESULT.  It is written so that NUM and RESULT can be
  the same pointers.  */

static void
_one_mult (num, size, digit, result)
    unsigned char *num;
    int size, digit;
    unsigned char *result;
{
 int carry, value;
 unsigned char *nptr, *rptr;

 if (digit == 0)
   memset (result, 0, size);
 else
   {
     if
 (digit == 1)
 memcpy (result, num, size);
     else
 {
   /* Initialize */
   nptr = (unsigned char *) (num+size-1);
   rptr = (unsigned char *) (result+size-1);
   carry = 0;

   while (size-- > 0)
     {
       value = *nptr-- * digit + carry;
       *rptr-- = value % BASE;
       carry = value / BASE;
     }

   if (carry != 0) *rptr = carry;
 }
   }
}



/* The full division routine. This computes N1 / N2.  It returns
```

```
 0 if the division is ok and the result is in QUOT.  The number of
 digits after the decimal point is SCALE. It returns -1 if division
 by zero is tried.  The algorithm is found in Knuth Vol 2. p237. */

int
bc_divide (n1, n2, quot, scale)
    bc_num n1, n2, *quot;
    int scale;
{
 bc_num qval;
 unsigned char *num1, *num2;
 unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
 int  scale1, val;
 unsigned int  len1, len2, scale2, qdigits, extra, count;
 unsigned int  qdig, qguess, borrow, carry;
 unsigned char *mval;
 char zero;
 unsigned int  norm;

 /* Test
 for divide by zero. */
 if (bc_is_zero (n2)) return -1;

 /* Test for divide by 1.  If it is we must truncate. */
 if (n2->n_scale == 0)
   {
    if (n2->n_len == 1 && *n2->n_value == 1)
 {
  qval = bc_new_num (n1->n_len, scale);
  qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
  memset (&qval->n_value[n1->n_len],0,scale);
  memcpy (qval->n_value, n1->n_value,
   n1->n_len + MIN(n1->n_scale,scale));
  bc_free_num (quot);
  *quot = qval;
 }
   }

 /* Set up the divide.  Move the decimal point on n1 by n2's scale.
    Remember, zeros on the end of num2 are wasted effort for dividing. */
 scale2 = n2->n_scale;
 n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
 while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

 len1 = n1->n_len + scale2;
 scale1 = n1->n_scale - scale2;
 if (scale1 < scale)
   extra = scale - scale1;
```

```
else
  extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();

memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);

len2 = n2->n_len + scale2;
num2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
*(num2+len2) = 0;
n2ptr = num2;
while (*n2ptr == 0)
  {
    n2ptr++;
    len2--;
  }

/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
  {
    qdigits = scale+1;
    zero = TRUE;
  }
else
  {
    zero = FALSE;
    if (len2>len1)
qdigits = scale+1;   /* One for the zero integer part. */
    else
qdigits = len1-len2+scale+1;
  }

/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale,scale);
memset (qval->n_value, 0, qdigits);

/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory ();

/* Now for the full divide algorithm. */
if (!zero)
  {
    /* Normalize
```

```
*/
    norm =  10 / ((int)*n2ptr + 1);
    if (norm != 1)
{
  _one_mult (num1, len1+scale1+extra+1, norm, num1);
  _one_mult (n2ptr, len2, norm, n2ptr);
}

    /* Initialize divide loop. */
    qdig = 0;
    if (len2 > len1)
qptr = (unsigned char *) qval->n_value+len2-len1;
    else
qptr = (unsigned char *) qval->n_value;

    /* Loop */
    while (qdig <= len1+scale-len2)
{
  /* Calculate the quotient digit guess. */
  if (*n2ptr == num1[qdig])
    qguess = 9;
  else
    qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;

  /* Test qguess. */
  if (n2ptr[1]*qguess >
      (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
       + num1[qdig+2])
    {
      qguess--;
      /* And again. */
      if (n2ptr[1]*qguess >
   (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
   + num1[qdig+2])
 qguess--;
    }

  /* Multiply and subtract. */
  borrow = 0;
  if (qguess != 0)
    {
      *mval = 0;
      _one_mult (n2ptr, len2, qguess, mval+1);

     ptr1 = (unsigned char *) num1+qdig+len2;
      ptr2 = (unsigned char *) mval+len2;
      for (count = 0; count < len2+1; count++)
 {
```

```
  val = (int) *ptr1 - (int) *ptr2-- - borrow;
  if (val < 0)
    {
      val += 10;
      borrow = 1;
    }
  else
    borrow = 0;
  *ptr1-- = val;
}
    }

  /* Test for negative result. */
  if (borrow == 1)
    {
      qguess--;
      ptr1 = (unsigned char *) num1+qdig+len2;
      ptr2 = (unsigned char *) n2ptr+len2-1;
      carry = 0;
      for (count = 0; count < len2; count++)
{
  val = (int) *ptr1 + (int) *ptr2-- + carry;
  if (val > 9)
    {
      val -= 10;
      carry = 1;
    }
  else
    carry = 0;
  *ptr1-- = val;
}
      if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;
    }

  /* We now know the quotient digit. */
  *qptr++ =  qguess;
  qdig++;
}
  }

/* Clean up and return the number. */
qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
if (bc_is_zero (qval)) qval->n_sign
= PLUS;
_bc_rm_leading_zeros (qval);
bc_free_num (quot);
*quot = qval;
```

```
 /* Clean up temporary storage. */
 free (mval);
 free (num1);
 free (num2);

 return 0; /* Everything is OK. */
}


/* Division *and* modulo for numbers.  This computes both NUM1 / NUM2 and
  NUM1 % NUM2  and puts the results in QUOT and REM, except that if QUOT
  is NULL then that store will be omitted.
*/

int
bc_divmod (num1, num2, quot, rem, scale)
    bc_num num1, num2, *quot, *rem;
    int scale;
{
 bc_num quotient = NULL;
 bc_num temp;
 int rscale;

 /* Check for correct numbers. */
 if (bc_is_zero (num2)) return -1;

 /* Calculate final scale. */
 rscale = MAX (num1->n_scale, num2->n_scale+scale);
 bc_init_num(&temp);

 /* Calculate it. */
 bc_divide (num1, num2, &temp, scale);
 if (quot)
   quotient = bc_copy_num (temp);
 bc_multiply (temp, num2, &temp, rscale);
 bc_sub (num1, temp, rem, rscale);
 bc_free_num (&temp);

 if (quot)
   {
     bc_free_num (quot);
      *quot = quotient;
   }

 return 0; /* Everything is OK. */
}
```

```
/* Modulo for numbers.  This computes NUM1 % NUM2  and puts the
  result in RESULT.   */

int
bc_modulo (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
 return bc_divmod (num1, num2, NULL, result, scale);
}

/* Raise BASE to the EXPO power, reduced modulo MOD.  The result is
  placed in RESULT.  If a EXPO is not an integer,
  only the integer part is used.  */

int
bc_raisemod (base, expo, mod, result, scale)
    bc_num base, expo, mod, *result;
    int scale;
{
 bc_num power, exponent, parity, temp;
 int rscale;

 /* Check for correct numbers. */
 if (bc_is_zero(mod)) return -1;
 if (bc_is_neg(expo)) return -1;

 /* Set initial values.  */
 power = bc_copy_num (base);
 exponent = bc_copy_num (expo);
 temp = bc_copy_num (_one_);
 bc_init_num(&parity);

 /* Check the base for scale digits. */
 if (base->n_scale != 0)
     bc_rt_warn ("non-zero scale in base");

 /* Check
 the exponent for scale digits. */
 if (exponent->n_scale != 0)
   {
     bc_rt_warn ("non-zero scale in exponent");
     bc_divide (exponent, _one_, &exponent, 0); /*truncate */
   }

 /* Check the modulus for scale digits. */
 if (mod->n_scale != 0)
     bc_rt_warn ("non-zero scale in modulus");
```

```
 /* Do the calculation. */
 rscale = MAX(scale, base->n_scale);
 while ( !bc_is_zero(exponent) )
   {
     (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
     if ( !bc_is_zero(parity) )
 {
   bc_multiply (temp, power, &temp, rscale);
   (void) bc_modulo (temp, mod, &temp, scale);
 }

     bc_multiply (power, power, &power, rscale);
     (void) bc_modulo (power, mod, &power, scale);
   }

 /* Assign the value. */
 bc_free_num (&power);
 bc_free_num (&exponent);
 bc_free_num (result);
 *result = temp;
 return 0; /* Everything is OK. */
}

/* Raise NUM1 to the NUM2 power.  The result is placed in RESULT.
   Maximum exponent is LONG_MAX.  If a NUM2 is not an
 integer,
   only the integer part is used.  */

void
bc_raise (num1, num2, result, scale)
     bc_num num1, num2, *result;
     int scale;
{
   bc_num temp, power;
   long exponent;
   int rscale;
   int pwrscale;
   int calcscale;
   char neg;

   /* Check the exponent for scale digits and convert to a long. */
   if (num2->n_scale != 0)
     bc_rt_warn ("non-zero scale in exponent");
   exponent = bc_num2long (num2);
   if (exponent == 0 && (num2->n_len > 1 || num2->n_value[0] != 0))
       bc_rt_error ("exponent too large in raise");
```

```
/* Special case if exponent is a zero. */
if (exponent == 0)
  {
    bc_free_num (result);
    *result = bc_copy_num (_one_);
    return;
  }

/* Other initializations. */
if (exponent < 0)
  {
    neg = TRUE;
    exponent = -exponent;
    rscale = scale;
  }
else
  {
    neg = FALSE;
    rscale = MIN (num1->n_scale*exponent, MAX(scale, num1->n_scale));
  }

/* Set initial value of temp.  */
 power = bc_copy_num (num1);
pwrscale = num1->n_scale;
while ((exponent & 1) == 0)
  {
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    exponent = exponent >> 1;
  }
temp = bc_copy_num (power);
calcscale = pwrscale;
exponent = exponent >> 1;

/* Do the calculation. */
while (exponent > 0)
  {
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    if ((exponent & 1) == 1) {
calcscale = pwrscale + calcscale;
bc_multiply (temp, power, &temp, calcscale);
    }
    exponent = exponent >> 1;
  }

/* Assign the value. */
if (neg)
```

```
    {
      bc_divide (_one_, temp, result, rscale);
      bc_free_num (&temp);
    }
  else
    {
      bc_free_num (result);
      *result = temp;
      if ((*result)->n_scale > rscale)
  (*result)->n_scale = rscale;
    }
  bc_free_num (&power);
}

/* Take the square root NUM and return it in NUM with SCALE digits
  after the
 decimal place. */

int
bc_sqrt (num, scale)
    bc_num *num;
    int scale;
{
 int rscale, cmp_res, done;
 int cscale;
 bc_num guess, guess1, point5, diff;

 /* Initial checks. */
 cmp_res = bc_compare (*num, _zero_);
 if (cmp_res < 0)
   return 0;  /* error */
 else
   {
     if (cmp_res == 0)
 {
   bc_free_num (num);
   *num = bc_copy_num (_zero_);
   return 1;
 }
   }
 cmp_res = bc_compare (*num, _one_);
 if (cmp_res == 0)
   {
     bc_free_num (num);
     *num = bc_copy_num (_one_);
     return 1;
   }
```

```
/* Initialize the variables. */
rscale = MAX (scale, (*num)->n_scale);
bc_init_num(&guess);
bc_init_num(&guess1);
bc_init_num(&diff);
point5 = bc_new_num (1,1);
point5->n_value[1] = 5;


/* Calculate the initial guess. */
if (cmp_res < 0)
  {
    /* The number is between 0 and 1.  Guess should start at 1. */
    guess = bc_copy_num (_one_);
    cscale = (*num)->n_scale;
  }
else
  {
    /* The number is greater than 1.  Guess should
start at 10^(exp/2). */
    bc_int2num (&guess,10);

    bc_int2num (&guess1,(*num)->n_len);
    bc_multiply (guess1, point5, &guess1, 0);
    guess1->n_scale = 0;
    bc_raise (guess, guess1, &guess, 0);
    bc_free_num (&guess1);
    cscale = 3;
  }

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
  {
    bc_free_num (&guess1);
    guess1 = bc_copy_num (guess);
    bc_divide (*num, guess, &guess, cscale);
    bc_add (guess, guess1, &guess, 0);
    bc_multiply (guess, point5, &guess, cscale);
    bc_sub (guess, guess1, &diff, cscale+1);
    if (bc_is_near_zero (diff, cscale))
{
  if (cscale < rscale+1)
    cscale = MIN (cscale*3, rscale+1);
  else
    done = TRUE;
}
  }
```

```
 /* Assign the number and clean up. */
 bc_free_num (num);
 bc_divide (guess,_one_,num,rscale);
 bc_free_num (&guess);
 bc_free_num (&guess1);
 bc_free_num (&point5);
 bc_free_num (&diff);
 return 1;
}


/* The following routines
 provide output for bcd numbers package
  using the rules of POSIX bc for output. */

/* This structure is used for saving digits in the conversion process. */
typedef struct stk_rec {
 long  digit;
 struct stk_rec *next;
} stk_rec;

/* The reference string for digits. */
static char ref_str[] = "0123456789ABCDEF";


/* A special output routine for "multi-character digits."  Exactly
  SIZE characters must be output for the value VAL.  If SPACE is
  non-zero, we must output one space before the number.  OUT_CHAR
  is the actual routine for writing the characters. */

void
bc_out_long (val, size, space, out_char)
    long val;
    int size, space;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
{
 char digits[40];
 int len, ix;

 if (space) (*out_char) (' ');
 sprintf (digits, "%ld", val);
 len = strlen (digits);
 while (size > len)
```

```
  {
    (*out_char) ('0');
    size--;
  }
 for (ix=0; ix < len; ix++)
  (*out_char) (digits[ix]);
}

/*
 Output of a bcd number.  NUM is written in base O_BASE using OUT_CHAR
  as the routine to do the actual output of the characters. */

void
bc_out_num (num, o_base, out_char, leading_zero)
    bc_num num;
    int o_base;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
    int leading_zero;
{
 char *nptr;
 int  index, fdigit, pre_space;
 stk_rec *digits, *temp;
 bc_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;

 /* The negative sign if needed. */
 if (num->n_sign == MINUS) (*out_char) ('-');

 /* Output the number. */
 if (bc_is_zero (num))
  (*out_char) ('0');
 else
  if (o_base == 10)
    {
 /* The number is in base 10, do it the fast way. */
 nptr = num->n_value;
 if (num->n_len > 1 || *nptr != 0)
  for (index=num->n_len; index>0; index--)
    (*out_char) (BCD_CHAR(*nptr++));
 else
  nptr++;

 if (leading_zero && bc_is_zero (num))
  (*out_char) ('0');
```

```
/* Now the fraction. */
if (num->n_scale > 0)
  {

 (*out_char) ('.');
    for (index=0; index<num->n_scale; index++)
      (*out_char) (BCD_CHAR(*nptr++));
  }
    }
  else
    {
/* special case ... */
if (leading_zero && bc_is_zero (num))
  (*out_char) ('0');

/* The number is some other base. */
digits = NULL;
bc_init_num (&int_part);
bc_divide (num, _one_, &int_part, 0);
bc_init_num (&frac_part);
bc_init_num (&cur_dig);
bc_init_num (&base);
bc_sub (num, int_part, &frac_part, 0);
/* Make the INT_PART and FRAC_PART positive. */
int_part->n_sign = PLUS;
frac_part->n_sign = PLUS;
bc_int2num (&base, o_base);
bc_init_num (&max_o_digit);
bc_int2num (&max_o_digit, o_base-1);


/* Get the digits of the integer part and push them on a stack. */
while (!bc_is_zero (int_part))
  {
    bc_modulo (int_part, base, &cur_dig, 0);
    temp = (stk_rec *) malloc (sizeof(stk_rec));
    if (temp == NULL) bc_out_of_memory();
    temp->digit = bc_num2long (cur_dig);
    temp->next = digits;
    digits = temp;
    bc_divide
(int_part, base, &int_part, 0);
  }

/* Print the digits on the stack. */
if (digits != NULL)
  {
    /* Output the digits. */
```

```
    while (digits != NULL)
      {
 temp = digits;
 digits = digits->next;
 if (o_base <= 16)
  (*out_char) (ref_str[ (int) temp->digit]);
 else
  bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);
 free (temp);
      }
  }

/* Get and print the digits of the fraction part. */
if (num->n_scale > 0)
  {
    (*out_char) ('.');
    pre_space = 0;
    t_num = bc_copy_num (_one_);
    while (t_num->n_len <= num->n_scale) {
      bc_multiply (frac_part, base, &frac_part, num->n_scale);
      fdigit = bc_num2long (frac_part);
      bc_int2num (&int_part, fdigit);
      bc_sub (frac_part, int_part, &frac_part, 0);
      if (o_base <= 16)
 (*out_char) (ref_str[fdigit]);
      else {
 bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);
 pre_space = 1;
      }
      bc_multiply (t_num, base, &t_num, 0);
    }

   bc_free_num (&t_num);
  }

 /* Clean up. */
 bc_free_num (&int_part);
 bc_free_num (&frac_part);
 bc_free_num (&base);
 bc_free_num (&cur_dig);
 bc_free_num (&max_o_digit);
    }
}
/* Convert a number NUM to a long.  The function returns only the integer
  part of the number.  For numbers that are too large to represent as
  a long, this function returns a zero.  This can be detected by checking
  the NUM for zero after having a zero returned. */
```

```
long
bc_num2long (num)
    bc_num num;
{
 long val;
 char *nptr;
 int  index;

 /* Extract the int value, ignore the fraction. */
 val = 0;
 nptr = num->n_value;
 for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)
   val = val*BASE + *nptr++;

 /* Check for overflow.  If overflow, return zero. */
 if (index>0) val = 0;
 if (val < 0) val = 0;

 /* Return the value. */
 if (num->n_sign == PLUS)
   return (val);
 else
   return (-val);
}


/* Convert an integer VAL to a bc number NUM. */

void
bc_int2num
 (num, val)
    bc_num *num;
    int val;
{
 char buffer[30];
 char *bptr, *vptr;
 int  ix = 1;
 char neg = 0;

 /* Sign. */
 if (val < 0)
   {
     neg = 1;
     val = -val;
   }

 /* Get things going. */
 bptr = buffer;
```

```
 *bptr++ = val % BASE;
 val = val / BASE;

 /* Extract remaining digits. */
 while (val != 0)
   {
     *bptr++ = val % BASE;
     val = val / BASE;
     ix++;   /* Count the digits. */
   }

 /* Make the number. */
 bc_free_num (num);
 *num = bc_new_num (ix, 0);
 if (neg) (*num)->n_sign = MINUS;

 /* Assign the digits. */
 vptr = (*num)->n_value;
 while (ix-- > 0)
   *vptr++ = *--bptr;
}

/* Convert a numbers to a string.  Base 10 only.*/

char
*num2str (num)
     bc_num num;
{
 char *str, *sptr;
 char *nptr;
 int  index, signch;

 /* Allocate the string memory. */
 signch = ( num->n_sign == PLUS ? 0 : 1 );  /* Number of sign chars. */
 if (num->n_scale > 0)
   str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);

 else
   str = (char *) malloc (num->n_len + 1 + signch);
 if (str == NULL) bc_out_of_memory();

 /* The negative sign if needed. */
 sptr = str;
 if (signch) *sptr++ = '-';

 /* Load the whole number. */
 nptr = num->n_value;
 for (index=num->n_len; index>0; index--)
```

```
  *sptr++ = BCD_CHAR(*nptr++);

 /* Now the fraction. */
 if (num->n_scale > 0)
   {
     *sptr++ = '.';
     for (index=0; index<num->n_scale; index++)
 *sptr++ = BCD_CHAR(*nptr++);
   }

 /* Terminate the string and return it! */
 *sptr = '\0';
 return (str);
}
/* Convert strings to bc numbers.  Base 10 only.*/

void
bc_str2num (num, str, scale)
    bc_num *num;
    char *str;
    int scale;
{
 int digits, strscale;
 char *ptr, *nptr;
 char zero_int;

 /* Prepare num. */
 bc_free_num (num);

 /* Check for valid number and count digits. */
 ptr = str;
 digits = 0;
 strscale = 0;
 zero_int = FALSE;
 if ( (*ptr == '+') || (*ptr == '-'))  ptr++;  /* Sign */
 while (*ptr == '0') ptr++;   /* Skip
 leading zeros. */
 while (isdigit((int)*ptr)) ptr++, digits++; /* digits */
 if (*ptr == '.') ptr++;   /* decimal point */
 while (isdigit((int)*ptr)) ptr++, strscale++; /* digits */
 if ((*ptr != '\0') || (digits+strscale == 0))
   {
     *num = bc_copy_num (_zero_);
     return;
   }

 /* Adjust numbers and allocate storage and initialize fields. */
 strscale = MIN(strscale, scale);
```

```
 if (digits == 0)
   {
     zero_int = TRUE;
     digits = 1;
   }
 *num = bc_new_num (digits, strscale);

 /* Build the whole number. */
 ptr = str;
 if (*ptr == '-')
   {
     (*num)->n_sign = MINUS;
     ptr++;
   }
 else
   {
     (*num)->n_sign = PLUS;
     if (*ptr == '+') ptr++;
   }
 while (*ptr == '0') ptr++;   /* Skip leading zeros. */
 nptr = (*num)->n_value;
 if (zero_int)
   {
     *nptr++ = 0;
     digits = 0;
   }
 for (;digits > 0; digits--)
   *nptr++ = CH_VAL(*ptr++);


 /* Build the fractional part. */
 if (strscale > 0)
   {
     ptr++;  /*
 skip the decimal point! */
     for (;strscale > 0; strscale--)
 *nptr++ = CH_VAL(*ptr++);
   }
}

/* pn prints the number NUM in base 10. */

static void
out_char (int c)
{
 putchar(c);
}
```

```
void
pn (num)
   bc_num num;
{
 bc_out_num (num, 10, out_char, 0);
 out_char ('\n');
}


/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
   char *name;
   unsigned char *num;
   int len;
{
 int i;
 printf ("%s=", name);
 for (i=0; i<len; i++) printf ("%c",BCD_CHAR(num[i]));
 printf ("\n");
}
```

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1.42 open-ldap 2.4.46

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1.43 glibc 2.28

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#include "db_config.h"

#include
 "db_int.h"
#include "dbinc/blob.h"
#include "dbinc/crypto.h"
#include "dbinc/db_page.h"
#include "dbinc/db_swap.h"
#include "dbinc/btree.h"
#include "dbinc/lock.h"
#include "dbinc/mp.h"
#include "dbinc/partition.h"
#include "dbinc/fop.h"

static void __bam_init_meta __P((DB *, BTMETA *, db_pgno_t, DB_LSN *));

/*
* __bam_open --
* Open a btree.
*
```

```
* PUBLIC: int __bam_open __P((DB *, DB_THREAD_INFO *,
* PUBLIC:      DB_TXN *, const char *, db_pgno_t, u_int32_t));
*/
int
__bam_open(dbp, ip, txn, name, base_pgno, flags)
 DB *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
 const char *name;
 db_pgno_t base_pgno;
 u_int32_t flags;
{
 BTREE *t;

 COMPQUIET(name, NULL);
 t = dbp->bt_internal;

 /*
  * We don't permit the user to specify a prefix routine if they didn't
  * also specify a comparison routine, they can't know enough about our
  * comparison routine to get it right.
  */
 if (t->bt_compare == __bam_defcmp && t->bt_prefix != __bam_defpfx)
 {
  __db_errx(dbp->env, DB_STR("1006",
"prefix comparison may not be specified for default comparison routine"));
  return (EINVAL);
 }

 /*
  * Verify that the bt_minkey value specified won't cause the
  * calculation of ovflsize to underflow [#2406] for this pagesize.
  */
 if (B_MINKEY_TO_OVFLSIZE(dbp, t->bt_minkey, dbp->pgsize) >
     B_MINKEY_TO_OVFLSIZE(dbp, DEFMINKEYPAGE, dbp->pgsize)) {
  __db_errx(dbp->env, DB_STR_A("1007",
      "bt_minkey value of %lu too high for page size of %lu",
      "%lu %lu"), (u_long)t->bt_minkey, (u_long)dbp->pgsize);
  return (EINVAL);
 }

 /* Start up the tree. */
 return (__bam_read_root(dbp, ip, txn, base_pgno, flags));
}

/*
* __bam_metachk --
*
```

```
* PUBLIC: int __bam_metachk __P((DB *, const char *, BTMETA *));
*/
int
__bam_metachk(dbp, name, btm)
 DB *dbp;
 const char *name;
 BTMETA *btm;
{
 ENV *env;
 u_int32_t vers;
 int ret;

 env = dbp->env;
 ret = 0;

 /*
  * At this point, all we know
 is that the magic number is for a Btree.
  * Check the version, the database may be out of date.
  */
 vers = btm->dbmeta.version;
 if (F_ISSET(dbp, DB_AM_SWAP))
  M_32_SWAP(vers);
 switch (vers) {
 case 6:
 case 7:
  __db_errx(env, DB_STR_A("1008",
      "%s: btree version %lu requires a version upgrade",
      "%s %lu"), name, (u_long)vers);
  return (DB_OLD_VERSION);
 case 8:
 case 9:
 case 10:
  break;
 default:
  __db_errx(env, DB_STR_A("1009",
      "%s: unsupported btree version: %lu", "%s %lu"),
      name, (u_long)vers);
  return (EINVAL);
 }

 /* Swap the page if we need to. */
 if (F_ISSET(dbp, DB_AM_SWAP) &&
     (ret = __bam_mswap(env, (PAGE *)btm)) != 0)
  return (ret);

 /*
  * Check application info against metadata info, and set info, flags,
```

```
 * and type based on metadata info.
 */
if ((ret =
    __db_fchk(env, "DB->open", btm->dbmeta.flags, BTM_MASK)) != 0)
 return (ret);

if (F_ISSET(&btm->dbmeta, BTM_RECNO)) {
 if (dbp->type
== DB_BTREE)
  goto wrong_type;
 dbp->type = DB_RECNO;
 DB_ILLEGAL_METHOD(dbp, DB_OK_RECNO);
} else {
 if (dbp->type == DB_RECNO)
  goto wrong_type;
 dbp->type = DB_BTREE;
 DB_ILLEGAL_METHOD(dbp, DB_OK_BTREE);
}

if (F_ISSET(&btm->dbmeta, BTM_DUP))
 F_SET(dbp, DB_AM_DUP);
else
 if (F_ISSET(dbp, DB_AM_DUP)) {
  __db_errx(env, DB_STR_A("1010",
 "%s: DB_DUP specified to open method but not set in database",
      "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_RECNUM)) {
 if (dbp->type != DB_BTREE)
  goto wrong_type;
 F_SET(dbp, DB_AM_RECNUM);

 if ((ret = __db_fcchk(env,
     "DB->open", dbp->flags, DB_AM_DUP, DB_AM_RECNUM)) != 0)
  return (ret);
} else
 if (F_ISSET(dbp, DB_AM_RECNUM)) {
  __db_errx(env, DB_STR_A("1011",
    "%s: DB_RECNUM specified to open method but not set in database",
      "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_FIXEDLEN)) {
 if (dbp->type != DB_RECNO)
  goto
```

```
wrong_type;
 F_SET(dbp, DB_AM_FIXEDLEN);
} else
 if (F_ISSET(dbp, DB_AM_FIXEDLEN)) {
  __db_errx(env, DB_STR_A("1012",
"%s: DB_FIXEDLEN specified to open method but not set in database",
  "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_RENUMBER)) {
 if (dbp->type != DB_RECNO)
  goto wrong_type;
 F_SET(dbp, DB_AM_RENUMBER);
} else
 if (F_ISSET(dbp, DB_AM_RENUMBER)) {
  __db_errx(env, DB_STR_A("1013",
    "%s: DB_RENUMBER specified to open method but not set in database",
      "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_SUBDB))
 F_SET(dbp, DB_AM_SUBDB);
else
 if (F_ISSET(dbp, DB_AM_SUBDB)) {
  __db_errx(env, DB_STR_A("1014",
    "%s: multiple databases specified but not supported by file",
      "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_DUPSORT)) {
 if (dbp->dup_compare == NULL)
  dbp->dup_compare = __bam_defcmp;
 F_SET(dbp, DB_AM_DUPSORT);
}
else
 if (dbp->dup_compare != NULL) {
  __db_errx(env, DB_STR_A("1015",
 "%s: duplicate sort specified but not supported in database",
      "%s"), name);
  return (EINVAL);
 }

#ifdef HAVE_COMPRESSION
 if (F_ISSET(&btm->dbmeta, BTM_COMPRESS)) {
  F_SET(dbp, DB_AM_COMPRESS);
```

```
 if ((BTREE *)dbp->bt_internal != NULL &&
     !DB_IS_COMPRESSED(dbp) &&
     (ret = __bam_set_bt_compress(dbp, NULL, NULL)) != 0)
  return (ret);
 } else {
 if ((BTREE *)dbp->bt_internal != NULL &&
     DB_IS_COMPRESSED(dbp)) {
  __db_errx(env, DB_STR_A("1016",
"%s: compresssion specified to open method but not set in database",
      "%s"), name);
  return (EINVAL);
 }
 }
#else
 if (F_ISSET(&btm->dbmeta, BTM_COMPRESS)) {
  __db_errx(env, DB_STR_A("1017",
     "%s: compression support has not been compiled in", "%s"),
     name);
 return (EINVAL);
 }
#endif

 /* Set the page size. */
 dbp->pgsize = btm->dbmeta.pagesize;

 dbp->blob_threshold = btm->blob_threshold;
 GET_BLOB_FILE_ID(env,
 btm, dbp->blob_file_id, ret);
 if (ret != 0)
  return (ret);
 GET_BLOB_SDB_ID(env, btm, dbp->blob_sdb_id, ret);
 if (ret != 0)
  return (ret);
 /* Blob databases must be upgraded. */
 if (vers == 9 && (dbp->blob_file_id != 0 || dbp->blob_sdb_id != 0)) {
    __db_errx(env, DB_STR_A("1207",
"%s: databases that support blobs must be upgraded.", "%s"),
     name);
 return (EINVAL);
 }
#ifndef HAVE_64BIT_TYPES
 if (dbp->blob_file_id != 0 || dbp->blob_sdb_id != 0) {
  __db_errx(env, DB_STR_A("1199",
     "%s: blobs require 64 integer compiler support.", "%s"),
     name);
  return (EINVAL);
 }
#endif
```

```
 /* Copy the file's ID. */
 memcpy(dbp->fileid, btm->dbmeta.uid, DB_FILE_ID_LEN);

 return (0);

wrong_type:
 if (dbp->type == DB_BTREE)
  __db_errx(env, DB_STR("1018",
     "open method type is Btree, database type is Recno"));
 else
  __db_errx(env, DB_STR("1019",
     "open method type is Recno, database type is Btree"));
 return
 (EINVAL);
}

/*
* __bam_read_root --
* Read the root page and check a tree.
*
* PUBLIC: int __bam_read_root __P((DB *,
* PUBLIC:      DB_THREAD_INFO *, DB_TXN *, db_pgno_t, u_int32_t));
*/
int
__bam_read_root(dbp, ip, txn, base_pgno, flags)
 DB *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
 db_pgno_t base_pgno;
 u_int32_t flags;
{
 BTMETA *meta;
 BTREE *t;
 DBC *dbc;
 DB_LOCK metalock;
 DB_MPOOLFILE *mpf;
 int ret, t_ret;

 COMPQUIET(flags, 0);

 meta = NULL;
 t = dbp->bt_internal;
 LOCK_INIT(metalock);
 mpf = dbp->mpf;
 ret = 0;

 /* Get a cursor.  */
```

```
if ((ret = __db_cursor(dbp, ip, txn, &dbc,
    F_ISSET(dbp, DB_AM_RECOVER) ? DB_RECOVER : 0)) != 0)
 return (ret);

/* Get the metadata page. */
if ((ret =
    __db_lget(dbc, 0, base_pgno, DB_LOCK_READ, 0, &metalock)) != 0)
 goto err;
if ((ret = __memp_fget(mpf, &base_pgno, ip, dbc->txn, 0, &meta)) != 0)
 goto err;

/*
 * If the magic number is set, the tree has been
created.  Correct
 * any fields that may not be right.  Note, all of the local flags
 * were set by DB->open.
 *
 * Otherwise, we'd better be in recovery or abort, in which case the
 * metadata page will be created/initialized elsewhere.
 *
 * Ignore the last_pgno on the metadata page for snapshot transactions:
 * we may be reading an old version of the page, and we've already
 * set last_pgno from the file size.  The only time this would matter
 * is if we don't have ftruncate and there are some free pages at the
 * end of the file: we could end up with holes.
 */
if (meta->dbmeta.magic == DB_BTREEMAGIC) {
 t->bt_minkey = meta->minkey;
 t->re_pad = (int)meta->re_pad;
 t->re_len = meta->re_len;

 t->bt_meta = base_pgno;
 t->bt_root = meta->root;
 t->revision = dbp->mpf->mfp->revision;
 if (PGNO(meta) == PGNO_BASE_MD &&
     !F_ISSET(dbp, DB_AM_RECOVER) &&
     (txn == NULL || !F_ISSET(txn, TXN_SNAPSHOT)) && (ret =
     __memp_set_last_pgno(mpf,
meta->dbmeta.last_pgno)) != 0)
  goto err;
} else {
 DB_ASSERT(dbp->env,
     IS_RECOVERING(dbp->env) || F_ISSET(dbp, DB_AM_RECOVER));
}

/*
 * !!!
 * If creating a subdatabase, we've already done an insert when
```

```
 * we put the subdatabase's entry into the master database, so
 * our last-page-inserted value is wrongly initialized for the
 * master database, not the subdatabase we're creating.  I'm not
 * sure where the *right* place to clear this value is, it's not
 * intuitively obvious that it belongs here.
 */
 t->bt_lpgno = PGNO_INVALID;

err: /* Put the metadata page back. */
 if (meta != NULL && (t_ret = __memp_fput(mpf,
     ip, meta, dbc->priority)) != 0 && ret == 0)
  ret = t_ret;
 if ((t_ret = __LPUT(dbc, metalock)) != 0 && ret == 0)
  ret = t_ret;

 if ((t_ret = __dbc_close(dbc)) != 0 && ret == 0)
  ret = t_ret;
 return (ret);
}

/*
* __bam_init_meta --
*
* Initialize a btree meta-data page.  The following fields may
 need
* to be updated later: last_pgno, root.
*/
static void
__bam_init_meta(dbp, meta, pgno, lsnp)
 DB *dbp;
 BTMETA *meta;
 db_pgno_t pgno;
 DB_LSN *lsnp;
{
 BTREE *t;
#ifdef HAVE_PARTITION
 DB_PARTITION *part;
#endif
 ENV *env;

 env = dbp->env;
 t = dbp->bt_internal;

 memset(meta, 0, sizeof(BTMETA));
 meta->dbmeta.lsn = *lsnp;
 meta->dbmeta.pgno = pgno;
 meta->dbmeta.magic = DB_BTREEMAGIC;
 meta->dbmeta.version = DB_BTREEVERSION;
```

```
 meta->dbmeta.pagesize = dbp->pgsize;
 if (F_ISSET(dbp, DB_AM_CHKSUM))
  FLD_SET(meta->dbmeta.metaflags, DBMETA_CHKSUM);
 if (F_ISSET(dbp, DB_AM_ENCRYPT)) {
  meta->dbmeta.encrypt_alg = env->crypto_handle->alg;
  DB_ASSERT(env, meta->dbmeta.encrypt_alg != 0);
  meta->crypto_magic = meta->dbmeta.magic;
 }
 meta->dbmeta.type = P_BTREEMETA;
 meta->dbmeta.free = PGNO_INVALID;
 meta->dbmeta.last_pgno = pgno;
 if (F_ISSET(dbp, DB_AM_DUP))
  F_SET(&meta->dbmeta, BTM_DUP);
 if (F_ISSET(dbp, DB_AM_FIXEDLEN))
  F_SET(&meta->dbmeta,
 BTM_FIXEDLEN);
 if (F_ISSET(dbp, DB_AM_RECNUM))
  F_SET(&meta->dbmeta, BTM_RECNUM);
 if (F_ISSET(dbp, DB_AM_RENUMBER))
  F_SET(&meta->dbmeta, BTM_RENUMBER);
 if (F_ISSET(dbp, DB_AM_SUBDB))
  F_SET(&meta->dbmeta, BTM_SUBDB);
 if (dbp->dup_compare != NULL)
  F_SET(&meta->dbmeta, BTM_DUPSORT);
#ifdef HAVE_COMPRESSION
 if (DB_IS_COMPRESSED(dbp))
  F_SET(&meta->dbmeta, BTM_COMPRESS);
#endif
 if (dbp->type == DB_RECNO)
  F_SET(&meta->dbmeta, BTM_RECNO);
 memcpy(meta->dbmeta.uid, dbp->fileid, DB_FILE_ID_LEN);

 meta->minkey = t->bt_minkey;
 meta->re_len = t->re_len;
 meta->re_pad = (u_int32_t)t->re_pad;
 meta->blob_threshold = dbp->blob_threshold;
 SET_BLOB_META_FILE_ID(meta, dbp->blob_file_id, BTMETA);
 SET_BLOB_META_SDB_ID(meta, dbp->blob_sdb_id, BTMETA);

#ifdef HAVE_PARTITION
 if ((part = dbp->p_internal) != NULL) {
  meta->dbmeta.nparts = part->nparts;
  if (F_ISSET(part, PART_CALLBACK))
   FLD_SET(meta->dbmeta.metaflags, DBMETA_PART_CALLBACK);
  if (F_ISSET(part,
 PART_RANGE))
   FLD_SET(meta->dbmeta.metaflags, DBMETA_PART_RANGE);
 }
```

```
#endif
}

/*
* __bam_new_file --
* Create the necessary pages to begin a new database file.
*
* This code appears more complex than it is because of the two cases (named
* and unnamed).  The way to read the code is that for each page being created,
* there are three parts: 1) a "get page" chunk (which either uses malloc'd
* memory or calls __memp_fget), 2) the initialization, and 3) the "put page"
* chunk which either does a fop write or an __memp_fput.
*
* PUBLIC: int __bam_new_file __P((DB *,
* PUBLIC:      DB_THREAD_INFO *, DB_TXN *, DB_FH *, const char *));
*/
int
__bam_new_file(dbp, ip, txn, fhp, name)
 DB *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
 DB_FH *fhp;
 const char *name;
{
 BTMETA *meta;
 DBT pdbt;
 DB_LSN lsn;
 DB_MPOOLFILE *mpf;
 DB_PGINFO pginfo;
 ENV *env;
 PAGE *root;
 db_pgno_t pgno;
 int ret, t_ret;
 void *buf;

 env = dbp->env;
 mpf =
 dbp->mpf;
 root = NULL;
 meta = NULL;
 buf = NULL;

 if (F_ISSET(dbp, DB_AM_INMEM)) {
  /* Build the meta-data page. */
  pgno = PGNO_BASE_MD;
  if ((ret = __memp_fget(mpf, &pgno,
      ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &meta)) != 0)
   return (ret);
```

```
LSN_NOT_LOGGED(lsn);
__bam_init_meta(dbp, meta, PGNO_BASE_MD, &lsn);
meta->root = 1;
meta->dbmeta.last_pgno = 1;
if ((ret =
    __db_log_page(dbp, txn, &lsn, pgno, (PAGE *)meta)) != 0)
 goto err;
ret = __memp_fput(mpf, ip, meta, dbp->priority);
meta = NULL;
if (ret != 0)
 goto err;

/* Build the root page. */
pgno = 1;
if ((ret = __memp_fget(mpf, &pgno,
    ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &root)) != 0)
 goto err;
P_INIT(root, dbp->pgsize, 1, PGNO_INVALID, PGNO_INVALID,
    LEAFLEVEL, dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE);
LSN_NOT_LOGGED(root->lsn);
if ((ret =
    __db_log_page(dbp, txn, &root->lsn, pgno, root)) != 0)
 goto err;
ret =
__memp_fput(mpf, ip, root, dbp->priority);
root = NULL;
if (ret != 0)
 goto err;
} else {
memset(&pdbt, 0, sizeof(pdbt));

/* Build the meta-data page. */
pginfo.db_pagesize = dbp->pgsize;
pginfo.flags =
    F_ISSET(dbp, (DB_AM_CHKSUM | DB_AM_ENCRYPT | DB_AM_SWAP));
pginfo.type = dbp->type;
pdbt.data = &pginfo;
pdbt.size = sizeof(pginfo);
if (dbp->blob_threshold) {
 if ((ret = __blob_generate_dir_ids(dbp, txn,
     &dbp->blob_file_id)) != 0)
  return (ret);

 }
if ((ret = __os_calloc(env, 1, dbp->pgsize, &buf)) != 0)
 return (ret);
meta = (BTMETA *)buf;
LSN_NOT_LOGGED(lsn);
```

```
  __bam_init_meta(dbp, meta, PGNO_BASE_MD, &lsn);
  meta->root = 1;
  meta->dbmeta.last_pgno = 1;
  if ((ret = __db_pgout(
      dbp->dbenv, PGNO_BASE_MD, meta, &pdbt)) != 0)
   goto err;
  if ((ret = __fop_write(env, txn, name, dbp->dirname,
      DB_APP_DATA, fhp,
      dbp->pgsize, 0, 0, buf, dbp->pgsize, 1, F_ISSET(
      dbp, DB_AM_NOT_DURABLE)
 ? DB_LOG_NOT_DURABLE : 0)) != 0)
   goto err;
  meta = NULL;

  /* Build the root page. */
#ifdef DIAGNOSTIC
  memset(buf, CLEAR_BYTE, dbp->pgsize);
#endif
  root = (PAGE *)buf;
  P_INIT(root, dbp->pgsize, 1, PGNO_INVALID, PGNO_INVALID,
      LEAFLEVEL, dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE);
  LSN_NOT_LOGGED(root->lsn);
  if ((ret =
      __db_pgout(dbp->dbenv, root->pgno, root, &pdbt)) != 0)
   goto err;
  if ((ret =
      __fop_write(env, txn, name, dbp->dirname, DB_APP_DATA,
      fhp, dbp->pgsize, 1, 0, buf, dbp->pgsize, 1, F_ISSET(
      dbp, DB_AM_NOT_DURABLE) ? DB_LOG_NOT_DURABLE : 0)) != 0)
   goto err;
  root = NULL;
 }

err: if (buf != NULL)
  __os_free(env, buf);
 else {
  if (meta != NULL &&
      (t_ret = __memp_fput(mpf, ip,
      meta, dbp->priority)) != 0 && ret == 0)
   ret = t_ret;
  if (root != NULL &&
      (t_ret = __memp_fput(mpf, ip,
      root, dbp->priority)) != 0 && ret == 0)
   ret = t_ret;
 }
 return (ret);
}
```

```
/*
 * __bam_new_subdb --
* Create a metadata page and a root page for a new btree.
*
* PUBLIC: int __bam_new_subdb __P((DB *, DB *, DB_THREAD_INFO *, DB_TXN *));
*/
int
__bam_new_subdb(mdbp, dbp, ip, txn)
 DB *mdbp, *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
{
 BTMETA *meta;
 DBC *dbc;
 DB_LOCK metalock;
 DB_LSN lsn;
 DB_MPOOLFILE *mpf;
 ENV *env;
 PAGE *root;
 int ret, t_ret;

 env = mdbp->env;
 mpf = mdbp->mpf;
 dbc = NULL;
 meta = NULL;
 root = NULL;

 if (dbp->blob_threshold) {
  if ((ret = __blob_generate_dir_ids(dbp, txn,
      &dbp->blob_sdb_id)) != 0)
   return (ret);
 }

 if ((ret = __db_cursor(mdbp, ip, txn,
     &dbc, CDB_LOCKING(env) ?  DB_WRITECURSOR : 0)) != 0)
  return (ret);

 /* Get, and optionally create the metadata page. */
 if ((ret = __db_lget(dbc,
     0, dbp->meta_pgno, DB_LOCK_WRITE, 0, &metalock)) != 0)
  goto err;
 if ((ret = __memp_fget(mpf, &dbp->meta_pgno,
     ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &meta))
 != 0)
  goto err;

 /* Build meta-data page. */
 lsn = meta->dbmeta.lsn;
```

```
 __bam_init_meta(dbp, meta, dbp->meta_pgno, &lsn);
 if ((ret = __db_log_page(mdbp,
    txn, &meta->dbmeta.lsn, dbp->meta_pgno, (PAGE *)meta)) != 0)
  goto err;

 /* Create and initialize a root page. */
 if ((ret = __db_new(dbc,
    dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE, NULL, &root)) != 0)
  goto err;
 root->level = LEAFLEVEL;

 if (DBENV_LOGGING(env) &&
#if !defined(DEBUG_WOP)
    txn != NULL &&
#endif

    (ret = __bam_root_log(mdbp, txn, &meta->dbmeta.lsn, 0,
    meta->dbmeta.pgno, root->pgno, &meta->dbmeta.lsn)) != 0)
  goto err;

 meta->root = root->pgno;
 if ((ret =
    __db_log_page(mdbp, txn, &root->lsn, root->pgno, root)) != 0)
  goto err;

 /* Release the metadata and root pages. */
 if ((ret = __memp_fput(mpf, ip, meta, dbc->priority)) != 0)
  goto err;
 meta = NULL;
 if ((ret = __memp_fput(mpf, ip, root, dbc->priority)) != 0)
  goto err;
 root = NULL;
err:
 if
 (meta != NULL)
  if ((t_ret = __memp_fput(mpf, ip,
  meta, dbc->priority)) != 0 && ret == 0)
   ret = t_ret;
 if (root != NULL)
  if ((t_ret = __memp_fput(mpf, ip,
  root, dbc->priority)) != 0 && ret == 0)
   ret = t_ret;
 if ((t_ret = __LPUT(dbc, metalock)) != 0 && ret == 0)
  ret = t_ret;
 if (dbc != NULL)
  if ((t_ret = __dbc_close(dbc)) != 0 && ret == 0)
   ret = t_ret;
 return (ret);
```

}

1.45 cpio 2.11

1.45.1 Available under license :

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1.49 cpio 2.12

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nickc@redhat.com and I'll correct the situation.

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the documentation, and info on specific files will go into an AUTHORS
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++++++++++++++++

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

Several engineers at Cygnus Solutions have also provided many

small
bug fixes and configuration enhancements.

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

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

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

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

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

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

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

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

Preamble

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 Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not
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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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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

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

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and

distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

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

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

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

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

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

the scope of this License.

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

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

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

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

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

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

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

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials

specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

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

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

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

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

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

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

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

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impose that choice.

This section is intended to make thoroughly clear what is believed to
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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>
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MA 02110-1301, 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!

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Version 3, 29 June 2007

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Preamble

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When we speak of free software, we are referring to
freedom, 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
them 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 prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether

gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this

License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

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.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

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your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
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makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

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similar laws prohibiting or restricting circumvention of such
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You may convey verbatim copies of the Program's source code as you
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keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified
it, and giving a relevant date.

b) The work must carry prominent notices stating that it is

released under this License and any conditions added under section
7. This requirement modifies the requirement in section
4 to
"keep intact all notices".

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

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

A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
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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
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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
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1.56 elfutils 0.148

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1.59 tcl 8.6.1

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1.65 jcommon 1.0.16

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```
* $Id: Contributor.java,v 1.4 2005/11/16 15:58:41 taqua Exp $
*
* Changes
* -------
* 10-Dec-2001 : Version 1 (DG);
* 28-Feb-2002 : Moved into package com.jrefinery.ui.about (DG);
* 08-Oct-2002 : Fixed errors reported by Checkstyle (DG);
*
*/

package org.jfree.ui.about;

/**
* A simple class representing a contributor to a software project.
* <P>
* Used in the AboutFrame class.
*
* @author David Gilbert
*/
public class Contributor {

  /** The name. */
  private
 String name;

  /** The e-mail address. */
  private String email;

  /**
   * Creates a new contributor.
   *
   * @param name  the name.
   * @param email  the e-mail address.
   */
  public Contributor(final String name, final String email) {
     this.name = name;
     this.email = email;
  }

  /**
   * Returns the contributor's name.
   *
   * @return the contributor's name.
   */
  public String getName() {
     return this.name;
  }
```

```
  /**
   * Returns the contributor's e-mail address.
   *
   * @return the contributor's e-mail address.
   */
  public String getEmail() {
     return this.email;
  }

}
/* ===========================================================================
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*
* $Id: Licences.java,v 1.4 2005/11/16 15:58:41 taqua Exp $
*
* Changes
```

```
* -------
* 26-Nov-2001 : Version 1 (DG);
* 29-Jan-2002 : Appended the instructions to the end of the GNU LGPL and GPL to comply with
*               GNU requirements (DG);
* 28-Feb-2002 : Moved to package com.jrefinery.ui.about (DG);
* 08-Oct-2002 : Fixed errors reported by Checkstyle (DG);
*
*/

package org.jfree.ui.about;

/**
* Contains the full texts of the GNU General Public Licence and the GNU Lesser General
 Public
* Licence.
* <P>
* These are used in the presentation of a standard 'About' frame.
*
* @author David Gilbert
*/
public class Licences {

  /** The GNU General Public Licence. */
  public static final String GPL = "GNU GENERAL PUBLIC LICENSE\n"
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     + "Version 2, June 1991\n"
     + "\n"
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    + "How to Apply These Terms to Your New Programs\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "<one line to give the program's name and a brief idea of what it does.>\n"
    + "Copyright (C) <year>  <name of author>\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "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., 59 Temple Place, Suite "
    + "330, Boston, MA  02111-1307  USA\n"
    + "\n"
    + "Also add information on how to contact you by electronic and paper mail.\n"
    + "\n"
    + "If the program is interactive, make it output a short notice like this when it starts "
    + "in an interactive mode:\n"
    + "\n"
    + "Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with "
    + "ABSOLUTELY NO WARRANTY; for details type `show w'.\n"
    + "This is free software, and you are welcome to redistribute it under certain "
    + "conditions; type `show c' for details.\n"
    + "\n"
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    + "The hypothetical commands `show w' and `show c' should show the appropriate parts of "
    + "the
General Public License.  Of course, the commands you use may be called something "
    + "other than `show w' and `show c'; they could even be mouse-clicks or menu items"
    + "--whatever suits your program.\n"
    + "\n"
    + "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:\n"
    + "\n"
    + "Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' "
    + "(which makes passes at compilers) written by James Hacker.\n"
    + "\n"
    + "<signature of Ty Coon>, 1 April 1989\n"
    + "Ty Coon, President of Vice\n"
    + "\n"
    + "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.\n";

 /** The GNU Lesser General Public Licence. */
 public static final String LGPL = "GNU LESSER GENERAL PUBLIC LICENSE\n"
    + "\n"
    + "Version 2.1, February 1999\n"
    + "\n"
    + "Copyright (C) 1991, 1999 Free Software Foundation, Inc.\n"
    + "59 Temple Place, Suite 330, Boston, MA  02111-1307  USA\n"
    + "Everyone is permitted to copy and distribute verbatim copies of this license document, "
    + "but changing it is not allowed.\n"
    + "\n"
    + "[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.]\n"
    + "\n"
    + "Preamble\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "This license, the Lesser General Public License, applies to some specially designated "
    + "software packages--typically libraries--of the Free Software Foundation and other "
    + "authors who decide to use it. You can use it too, but we suggest you first think "
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    + "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.\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "When a program is linked with a library, whether statically or using a shared library, "
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  + "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.\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION\n"
    + "\n"
    + "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\"."
    + "\n"
    + "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.\n"
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    + "\n"
    + "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\".)\n"
    + "\n"
    + "\"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.\n"
    + "\n"
    + "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."
    + "\n"
    + "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.\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "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:\n"
    + "\n"
    + "*    a) The modified work must itself be a software library.\n"
    + "*    b) You must cause the
files modified to carry prominent notices stating that you "
    + "changed the files and the date of any change.\n"
    + "*    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.\n"
    + "*    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.\n"
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    + "\n"
    + "(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.)\n"
    + "\n"
    + "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.\n"
    + "\n"

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

```
    + "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.\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "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.)\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "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.\n"
     + "\n"
    + "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:\n"
    + "\n"
    + "*    a) Accompany the work with the complete corresponding machine-readable source "
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    + "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.)\n"
    + "*    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.\n"
    + "*    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.\n"
    + "*    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.\n"
    + "*    e) Verify that the user has already received a copy of these materials or that "
    + "you have already sent this user a copy.\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "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.\n"
    + "\n"
    + "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:\n"
    + "\n"
    + "*    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.\n"
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    + "*    b) Give prominent notice with the combined library of the fact that part of it is "
    + "a work based on the Library, and explaining where to find the accompanying uncombined "
    + "form of the same work.\n"
    + "\n"
    + "8. You may not copy, modify, sublicense, link with, or distribute the Library except "
    + "as expressly provided under this License. Any attempt otherwise to copy, modify, "
    + "sublicense, link with, or distribute the Library is void, and will automatically "
    + "terminate your rights under this License. However, parties who have received copies, "
    + "or rights, from you under this License will not have their licenses terminated so "
    + "long as such parties remain in full compliance.\n"
     + "\n"
    + "9. You are not required to accept this License, since you have not signed it. However, "
    + "nothing else grants you permission to modify or distribute the Library or its "
    + "derivative works. These actions are prohibited by law if you do not accept this "
    + "License. Therefore, by modifying or distributing the Library (or any work based on the "
    + "Library), you indicate your acceptance of this License to do so, and all its terms and "
    + "conditions for copying, distributing or modifying the Library or works based on it.\n"
    + "\n"
    + "10. Each time you redistribute the Library (or any work based on the Library), the "
    + "recipient automatically receives a license from the original licensor to copy, "
    + "distribute, link with or modify the Library subject to these terms and conditions. You "
    + "may not impose any further restrictions on the recipients' exercise of the rights
"
    + "granted herein. You are not responsible for enforcing compliance by third parties with "
    + "this License.\n"
    + "\n"
    + "11. If, as a consequence of a court judgment or allegation of patent infringement or "
    + "for any other reason (not limited to patent issues), conditions are imposed on you "
    + "(whether by court order, agreement or otherwise) that contradict the conditions of "
    + "this License, they do not excuse you from the conditions of this License. If you "
    + "cannot distribute so as to satisfy simultaneously your obligations under this License "
    + "and any other pertinent obligations, then as a consequence you may not distribute the "
    + "Library at all. For example, if a patent 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.\n"
    + "\n"
    + "If any portion of this section is held invalid or unenforceable under any particular "
    + "circumstance, the balance of the section is intended to apply, and the section as a "
    + "whole is intended to apply in other circumstances.\n"
    + "\n"
    + "It is not the purpose of this section to induce you to infringe any patents or other "
    + "property right claims or to contest validity of any such claims; this section has the "
    + "sole purpose of protecting the integrity of the free software distribution system "
    + "which is implemented by public license practices. Many people have made generous "
    + "contributions to the wide range of software distributed through that system in "
    + "reliance on consistent application of that system; it is up to the author/donor to "
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    + "decide if he or
she is willing to distribute software through any other system and a "
    + "licensee cannot impose that choice.\n"
    + "\n"
    + "This section is intended to make thoroughly clear what is believed to be a consequence "
    + "of the rest of this License.\n"
    + "\n"
    + "12. If the distribution and/or use of the Library is restricted in certain countries "
    + "either by patents or by copyrighted interfaces, the original copyright holder who "
    + "places the Library under this License may add an explicit geographical distribution "
    + "limitation excluding those countries, so that distribution is permitted only in or "
    + "among countries not thus excluded. In such case, this License incorporates the "
    + "limitation as if written in the body of this License.\n"
    + "\n"
    + "13. The Free Software Foundation may publish revised and/or new versions of the Lesser "
    + "General Public License
from time to time. Such new versions will be similar in spirit "
    + "to the present version, but may differ in detail to address new problems or concerns.\n"
    + "\n"
    + "Each version is given a distinguishing version number. If the Library specifies a "
    + "version number of this License which applies to it and \"any later version\", you have "
    + "the option of following the terms and conditions either of that version or of any "
    + "later version published by the Free Software Foundation. If the Library does not "
    + "specify a license version number, you may choose any version ever published by the "
    + "Free Software Foundation.\n"
    + "\n"
    + "14. If you wish to incorporate parts of the Library into other free programs whose "
    + "distribution conditions are incompatible with these, write to the author to ask for "
    + "permission. For software which is copyrighted by the Free Software
Foundation, write "
    + "to the Free Software Foundation; we sometimes make exceptions for this. Our decision "
    + "will be guided by the two goals of preserving the free status of all derivatives of "
    + "our free software and of promoting the sharing and reuse of software generally.\n"
    + "\n"
    + "NO WARRANTY\n"
    + "\n"
    + "15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR
THE "
    + "LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE
STATED IN "
    + "WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY \"AS
IS\" "
    + "WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT
NOT LIMITED "
    + "TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. "
    + "THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU.
SHOULD "
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    + "THE LIBRARY PROVE DEFECTIVE,
 YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR "
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    + "\n"
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    + "<signature of Ty Coon>, 1 April 1990\n"
    + "Ty Coon, President of Vice\n"
    + "\n"
    + "That's all there is to it!\n";

 /** The singleton instance of this class. */
 private static Licences singleton;

 /**
  * Returns a reference to this class.
  *
  * @return the instance reference.
  */
 public static Licences getInstance() {
    if (singleton == null) {
       singleton = new Licences();
    }
    return singleton;
 }

 /**
  * Returns the GPL text in a non static way to prevent the compiler
  * to copy the contents of the field.
  *
  * @return the GPL licence
text.
  */
 public String getGPL() {
    return GPL;
 }

 /**
  * Returns the LGPL text in a non static way to prevent the compiler
  * to copy the contents of the field.
  *
```

```
     * @return the LGPL licence text.
     */
    public String getLGPL() {
        return LGPL;
    }
}
```

1.66 libyaml 0.2.1

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---
abstract: 'Build and install Perl modules'
author:

- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
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version: 3

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
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The End
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

```
Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
 skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
 my $current_year = (gmtime)[5] + 1900;
 is $v_year, $current_year, 'perl -v copyright includes current
 year';
 is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
 is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;


sub readme_year
# returns the latest copyright year from the top-level README file
{
```

```
 open my $readme, '<', '../README' or die "Opening README failed: $!";

 # The copyright message is the first paragraph:
 local $/ = '';
 my $copyright_msg = <$readme>;

 my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

 $year;
}


sub v_year
# returns the latest copyright year shown in perl -v
{

 my $output = runperl switches => ['-v'];
 my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

 $year;
}
```

1.73 gdb 7.10.1

1.73.1 Available under license :

```
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                   Version 2, June 1991

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work

based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
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Appendix: How to Apply These Terms to Your New Libraries

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

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Ty Coon, President of Vice

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suggest you first think carefully about whether
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recipients all the rights that we gave
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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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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.

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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 on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

collective works based on the Library.

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered

by this License.
Section 6 states terms for distribution of such executables.

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

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

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

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

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a) Accompany the work with the complete corresponding machine-readable
source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the

Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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

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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b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data
structure
layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application

Code. If you use option 4d1, you must provide the Installation
Information in the manner specified by section 6 of the GNU GPL
for conveying Corresponding Source.)

5. Combined Libraries.

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 that are not Applications and are not covered by this
License, and convey such a combined library under
terms of your
choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based
on the Library, uncombined with any other library facilities,
conveyed under the terms of this License.

b) Give prominent notice with the combined library 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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whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.

```
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 (char *, int);"
  print ""
  print "static void show_warranty_command (char *, int);"
  print ""
  print "void _initialize_copying (void);"
  print ""
  print "static void";
  print "show_copying_command (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 (char *ignore, int from_tty)";
  print "{";
 }
/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/, /^[  ]*END OF TERMS AND CONDITIONS[  ]*$/{
  if (! ($0 ~ /^[  ]*END OF TERMS AND CONDITIONS[  ]*$/))
    {
      printf "  printf_filtered (\"";
      for (i = 1; i < NF; i++)
  printf "%s\\\"", $i;
      printf "%s\\n\");\n", $NF;
    }
 }
```

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

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@center Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
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version number 2.1.]
@end display

@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
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free software---to make sure the software is free for all its users.

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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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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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@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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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
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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

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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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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
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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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but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library

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``any later version'', you have the option of following the terms and
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DAMAGES.
@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.

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

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 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 Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, 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
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!
#! /usr/bin/env python

Copyright (C) 2011-2015 Free Software Foundation, Inc.
#
This file is part of GDB.
#
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 3 of the License, or
(at your option) any later version.
#
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.
#
You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

"""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 BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand." \
              "\033[0m"
        for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
            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 = (
  # These
 files are sensitive to line numbering.
  "gdb/testsuite/gdb.base/step-line.inp",
  "gdb/testsuite/gdb.base/step-line.c",
)

# 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()
@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
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@appendix GNU GENERAL PUBLIC LICENSE
@c The GNU General Public License.
@center Version 3, 29 June 2007

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

@display
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

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license document, but changing it is not allowed.
@end display

@heading Preamble

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software and other kinds of works.

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to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom
to share and change all versions of a program---to make sure it remains
free software for all its users.  We, the Free Software Foundation,
use the GNU General Public License for most of our software; it
applies also to any other work released this way by its authors.  You
can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not
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price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them 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 prevent others from denying you these rights
or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous
versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary.

To prevent this, the GPL
assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and
modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

``This License'' refers to version 3 of the GNU General Public License.

``Copyright'' also means copyright-like laws that apply to other kinds
of works, such as semiconductor masks.

``The Program'' refers to any copyrightable work licensed under this
License. Each licensee is addressed as ``you''. ``Licensees'' and
``recipients'' may be individuals or organizations.

To ``modify'' a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of
an exact copy. The resulting work is called a ``modified version'' of
the earlier work or a work ``based on'' the earlier work.

A ``covered work'' means either the unmodified Program or a work based
on the Program.

To ``propagate'' a
work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To ``convey'' a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user
through a computer network, with no transfer of a copy, is not
conveying.

An interactive user interface displays ``Appropriate Legal Notices'' to
the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface

presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

@item 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.

The Corresponding Source for a work in source code form is that same work.

@item Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively
for you, or provide you with
facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

@item Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to
forbid
circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

@item Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code;

keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

@item
Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these
conditions:

@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''.

@item
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.

@item
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.
@end enumerate

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.

@item 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:

@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
subsection 6d.

@end enumerate

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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tangible personal property which is normally used for personal,
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@end enumerate

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[This is the first released version of the library GPL. It is
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treats it as such.

Because
of this blurred distinction, using the ordinary General
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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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This option is useful when you wish to copy part of the code of the
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the

copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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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

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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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1.74 net-tools 1.60

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and valid for as
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1.77 log-rotate 3.9.1

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1.78 hd-parm 9.48

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1.82 ncurses 6.1

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when there is no Makefile.

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from scratch. It can only install one file at a time, a restriction
shared with many OS's install programs.

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

-- vile: txtmode file-encoding=utf-8
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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $

1.83 sqlite 3.18.0

1.83.1 Available under license :

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1.84 perl 5.14.2

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---
abstract: 'Build and install Perl modules'
author:
 - 'Ken Williams <kwilliams@cpan.org>'
 - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."
build_requires:
 File::Temp: 0.15
 Test::Harness: 3.16
 Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Module-Build
resources:
 MailingList: mailto:module-build@perl.org
 license: http://dev.perl.org/licenses/
 repository: http://github.com/dagolden/module-build/
version: 3

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Gnomovision version 69, Copyright (C) 19xx name of author
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 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 program `Gnomovision' (a program to direct compilers to make passes
 at assemblers) written by James Hacker.

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

That's all there is to it!
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ($Config{usecrosscompile}) {
 skip_all("Not all files are available during cross-compilation");
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

Check that both copyright dates are up-to-date, but only if requested, so

```
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
 my $current_year = (gmtime)[5] + 1900;
 is $v_year, $current_year, 'perl -v copyright includes current
 year';
 is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
 is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;


sub readme_year
# returns the latest copyright year from the top-level README file
{

 open my $readme, '<', '../README' or die "Opening README failed: $!";

 # The copyright message is the first paragraph:
 local $/ = '';
 my $copyright_msg = <$readme>;

 my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

 $year;
}


sub v_year
# returns the latest copyright year shown in perl -v
{

 my $output = runperl switches => ['-v'];
 my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

 $year;
}
```

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If you develop a new program, and you want it to be of the greatest possible use to humanity, 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>

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Street, Fifth Floor, Boston MA 02110-1301 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) 19xx 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 a sample; alter the names:

Yoyodyne, Inc., hereby disclaims
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

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

That's all there is to it!

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c)
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The End

1.85 attr 2.4.47

1.85.1 Available under license :

This package was debianized by Nathan Scott nathans@debian.org on
Sun, 19 Nov 2000 07:37:09 -0500.

It can be downloaded from ftp://oss.sgi.com/projects/xfs/download/

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Version 2.1, February 1999

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

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This option is useful when you wish to copy part of the code of the Library
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1.102 pciutils 3.6.2

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

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me,
nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into
the documentation, and info on specific files will go into an AUTHORS
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++++++++++++++++

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

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

K. Richard Pixley maintained gas for a while, adding various

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

that took a week and required the proverbial one-bit fix.

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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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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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from

such a program is covered only if its contents constitute a work based on the Library (independent
of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply

a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

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

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library

facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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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
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system;
it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Library General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each
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"any later version", you have the option of following the terms and
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license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

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IS LICENSED FREE OF CHARGE, THERE IS NO
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FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

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>

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modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
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but WITHOUT ANY WARRANTY; without even the implied warranty of
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You should have received a copy of the GNU Library General Public
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Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
MA 02110-1301, 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!

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Version 3, 29 June 2007

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Preamble

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The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,

the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to
freedom, 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 them 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 prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1)
assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand
ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2)

tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

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.

The Corresponding Source for a work in source code form is that

same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered
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content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed;
section 10
makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you

receive it, in any medium, provided that you conspicuously and
appropriately
publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified
it, and giving a relevant date.

b) The work must carry prominent notices stating that it is
released under this License and any conditions added under section
7. This requirement modifies the requirement in section
4 to
"keep intact all notices".

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

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

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

parts of the aggregate.

6. Conveying Non-Source Forms.

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

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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

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

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

e) Convey the object code using peer-to-peer transmission, provided

you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

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1.105 tcl 8.6.8

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1.111 json-c 0.9

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Version 3, 29 June 2007

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1.115 elfutils 0.175

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[This is the first released version of the Lesser GPL. It also counts
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the version number 2.1.]

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

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those activities but
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1.117 python3-asn1crypto 0.24.0

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1.119 cronie 1.5.2

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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

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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

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

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

That's all there is to it!
/* Native-dependent code for modern AMD64 BSD's.

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

#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#include "x86-bsd-nat.h"

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

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

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

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

#endif /* i386-bsd-nat.h */
@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
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}
```

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@end ignore
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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary.
To prevent this, the GPL
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@item Definitions.

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presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

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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.

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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 subsection 6d.

@end enumerate

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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the status of the particular user or of the way
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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
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Corresponding Source conveyed, and Installation Information provided,
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If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
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@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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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.

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of
the use of the Library in a tool for
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

 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.

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

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

#include "bsd-kvm.h"

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

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

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

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

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

/* The libkvm target.  */

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

class bsd_kvm_target final : public target_ops
{
public:
 bsd_kvm_target ()
 { this->to_stratum = process_stratum; }

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

 void close () override;

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

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

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

/* Target ops for libkvm interface.  */
```

```
static bsd_kvm_target bsd_kvm_ops;

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

 target_preopen (from_tty);

 if (arg)
   {
     char *temp;

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

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

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

 add_thread_silent (bsd_kvm_ptid);
 inferior_ptid = bsd_kvm_ptid;

 target_fetch_registers (get_current_regcache (), -1);

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

void
bsd_kvm_target::close ()
```

```
{
 if (core_kd)
   {
    if (kvm_close (core_kd)
 == -1)
 warning (("%s"), kvm_geterr(core_kd));
    core_kd = NULL;
   }

 inferior_ptid = null_ptid;
 discard_all_inferiors ();
}

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

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

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

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

```
 }

  default:
    return TARGET_XFER_E_IO;
  }
}

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

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

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

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

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

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

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

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

```
if (kvm_nlist (core_kd, nl) == -1)
  error (("%s"), 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);
}
/* Native-dependent code for x86 BSD's.

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#ifndef X86_BSD_NAT_H
#define X86_BSD_NAT_H

#include "x86-nat.h"

/* Low level x86 XSAVE info.  */
extern size_t x86bsd_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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```

```
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#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H

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

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

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

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

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

```
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specially designated Free Software Foundation software, and to any
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other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom,
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 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
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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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addressed as "you".

A "library" means a collection of software functions and/or data

prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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

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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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of

the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

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

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

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

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

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

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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.>
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Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
MA 02110-1301, 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!

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Version 3, 29 June 2007

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price. Our General Public Licenses are designed to make sure that you
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want it, that you can change the software or use pieces of it in new
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certain responsibilities if you distribute copies of the software, or if
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For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1)

assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand
ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees"
and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the

earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

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.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

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4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately
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keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This

License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

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

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

6. Conveying Non-Source Forms.

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

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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

c) Convey individual copies of the object code with a copy of the

written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
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#! /usr/bin/env python

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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",
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  "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",
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  "sim/arm/armopts.h",
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  "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",
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  "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",
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  "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",
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  "sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
  main()
```

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src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h

src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me
doc/meref.me

Hyphenation Patterns

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
the TeX system written by Donald E. Knuth; the master file can be found
at

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex
.

It has been renamed for consistency, i.e., to make patterns available
under the filenames `hyphen.<language>', e.g. `hyphen.de' or
`hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file
`frhyph.tex' (for TeX), which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex .

The patterns have been converted to a format groff can understand.

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which
can be found at

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same
patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which
can be found at

http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex
http://dante.ctan.org/CTAN/language/hyphenation/dehypht.tex .

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. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex',
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. The file `tmac/hyphen.cs' contains the same patterns as the file
`czhyphen.tex' (for TeX), which can be found in the archive

http://dante.ctan.org/CTAN/macros/cstex/base/csplain.tar.gz .

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<f20d86b70607200240x2a6f7b0as68daf43b2eef6a56@mail.gmail.com>

editcap.c:
merge.c:

mergecap.c:
Wireshark terms, according to wireshark-dev@, message-id:
<c9a3e4540607210110v50758766wf272c4e6c74d48f3@mail.gmail.com>

epan/epan.c:
epan/exceptions.h:
epan/dfilter/gencode.h:
epan/dfilter/glib-util.c:
epan/dfilter/glib-util.h:
Contributed by Gilbert Ramirez, he has been contacted, his other files are
under Wireshark terms, (message-id: <44C1EFA2.3050907@alum.mit.edu>)

epan/dissectors/packet-bootparams.h:
epan/dissectors/packet-mount.h:
epan/dissectors/packet-nfs.h:
epan/dissectors/packet-x11-keysym.h:
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<c9a3e4540607221458j407d552ekf28309c494487a8b@mail.gmail.com>

gtk/win32-file-dlg.h:
Contributed by Gerald Combs, Wireshark author, no answer yet but there is no
reason why it would not have standard Wireshark terms. Message-id:
<44C1EFA2.3050907@alum.mit.edu>

epan/in_cksum.h:
BSD, like in_cksum.c, according to wireshark-dev@, message-id:
<44C1EFA2.3050907@alum.mit.edu>

epan/dissectors/packet-diameter-defs.h:
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snprintf.h:
no longer used, according to wireshark-dev@, but it was under GPL like .c
message-id: <c9a3e4540607200322j2225fdf8q8687b1b1fd13543a@mail.gmail.com>

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1.127 iptables 1.6.2

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1.128 netbsd-resolv 2.22

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If such an object file uses only numerical parameters, data
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1.129 trilead-ssh 1.0.0-build221

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wiretap/erf.h
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Description: Change location of license file in about dialog
Forwarded: not-needed
Author: Frederic Peters <fpeters@debian.org>

--- a/ui/qt/about_dialog.cpp
+++ b/ui/qt/about_dialog.cpp
@@ -335,7 +335,7 @@
#if defined(_WIN32)
   f_license.setFileName(get_datafile_path("COPYING.txt"));
#else
-    f_license.setFileName(get_datafile_path("COPYING"));
+   f_license.setFileName(get_datafile_path("ABOUT.GPL"));
#endif

   f_license.open(QFile::ReadOnly | QFile::Text);
/* <filename>.c
*
* Wireshark - Network traffic analyzer
* By Gerald Combs <gerald@wireshark.org>
* Copyright 1998 Gerald Combs
*
* SPDX-License-Identifier: GPL-2.0-or-later
*/
#!/usr/bin/env python
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#
SPDX-License-Identifier: BSD-3-Clause
#
"""Makes sure that all files contain proper licensing information."""

import optparse
import os.path
import subprocess
import sys

def PrintUsage():
 print("""Usage: python checklicenses.py [--root <root>] [tocheck]
 --root   Specifies the repository root. This defaults to ".." relative
          to the script file. This will be correct given the normal location
          of the script in "<root>/tools".

```
 --ignore-suppressions  Ignores path-specific license whitelist. Useful when
                        trying to remove a suppression/whitelist entry.

 tocheck  Specifies the directory, relative to root, to check. This defaults
          to "." so it checks everything.

Examples:
 python checklicenses.py
 python checklicenses.py --root ~/chromium/src third_party""")


WHITELISTED_LICENSES = [
   'BSD',
   'BSD (2 clause)',
   'BSD (2 clause) GPL
 (v2 or later)',
   'BSD (3 clause)',
   'GPL (v2 or later)',
   'GPL (v3 or later) (with Bison parser exception)',
   'ISC',
   'ISC GPL (v2 or later)',
   'LGPL (v2 or later)',
   'LGPL (v2.1 or later)',
   'MIT/X11 (BSD like)',
   'Public domain',
   'Public domain GPL (v2 or later)',
   'Public domain MIT/X11 (BSD like)',
   'zlib/libpng',
   'zlib/libpng GPL (v2 or later)',
]


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

```
],
'wimaxasncp/dictionary.dtd': [
    'UNKNOWN',
],
'doc/': [
    'UNKNOWN',
],
'docbook/custom_layer_chm.xsl': [
    'UNKNOWN',
],
'docbook/custom_layer_single_html.xsl': [
    'UNKNOWN',
],
'docbook/ws.css' : [
    'UNKNOWN'
],
'fix': [
     'UNKNOWN',
],
'wsutil/g711.c': [
    'UNKNOWN',
],
'packaging/macosx': [
    'UNKNOWN',
],
'epan/except.c': [
    'UNKNOWN',
],
'epan/except.h': [
    'UNKNOWN',
],
'cmake/TestFileOffsetBits.c': [
    'UNKNOWN',
],
# Generated header files by lex/yacc/whatever
'epan/dtd_grammar.h': [
    'UNKNOWN',
],
'epan/dfilter/grammar.h': [
    'UNKNOWN',
],
'epan/dfilter/grammar.c': [
    'UNKNOWN',
],
'epan/dissectors/packet-ieee80211-radiotap-iter.': [ # Using ISC license only
     'ISC GPL (v2)'
],
'plugins/mate/mate_grammar.h': [
```

```
        'UNKNOWN',
    ],
    'version.h': [
        'UNKNOWN',
    ],
    # Special IDL license that appears to be compatible as far as I (not a
    # lawyer) can tell. See
    # https://www.wireshark.org/lists/wireshark-dev/201310/msg00234.html
    'epan/dissectors/pidl/idl_types.h': [
        'UNKNOWN',
    ],
    # Written by Ronnie Sahlberg
   and correctly licensed, but cannot include
    # a license header despite the file extension as they need to be
    # parsed by the pidl tool
    'epan/dissectors/pidl/mapi/request.cnf.c': [
        'UNKNOWN',
    ],
    'epan/dissectors/pidl/mapi/response.cnf.c': [
        'UNKNOWN',
    ],
    # The following tools are under incompatible licenses (mostly GPLv3 or
    # GPLv3+), but this is OK since they are not actually linked into Wireshark
    'tools/pidl': [
        'UNKNOWN',
    ],
    'tools/lemon': [
        'UNKNOWN',
    ],
    'tools/licensecheck.pl': [
        'GPL (v2)'
    ],
    # Generated files for GTK pixbuf binary bundling
    'ui/gtk/wireshark-gresources.h': [
        'UNKNOWN',
    ],
    'ui/gtk/wireshark-gresources.c': [
        'UNKNOWN',
    ],
}

def check_licenses(options, args):
  # Figure out which directory we have to check.
  if len(args) == 0:
    # No directory to check specified, use the repository root.
    start_dir = options.base_directory
  elif
```

```
len(args) == 1:
  # Directory specified. Start here. It's supposed to be relative to the
  # base directory.
  start_dir = os.path.abspath(os.path.join(options.base_directory, args[0]))
else:
  # More than one argument, we don't handle this.
  PrintUsage()
  return 1

print("Using base directory: %s" % options.base_directory)
print("Checking: %s" % start_dir)
print("")

licensecheck_path = os.path.abspath(os.path.join(options.base_directory,
                                        'tools',
                                        'licensecheck.pl'))

licensecheck = subprocess.Popen([licensecheck_path,
                         '-l', '150',
                         '-r', start_dir],
                        stdout=subprocess.PIPE,
                        stderr=subprocess.PIPE)
stdout, stderr = licensecheck.communicate()
if sys.version_info[0] >= 3:
    stdout = stdout.decode('utf-8')
    stderr
= stderr.decode('utf-8')
if options.verbose:
  print('----------- licensecheck stdout -----------')
  print(stdout)
  print('--------- end licensecheck stdout ---------')
if licensecheck.returncode != 0 or stderr:
  print('----------- licensecheck stderr -----------')
  print(stderr)
  print('--------- end licensecheck stderr ---------')
  print("\nFAILED\n")
  return 1

success = True
exit_status = 0
for line in stdout.splitlines():
  filename, license = line.split(':', 1)
  filename = os.path.relpath(filename.strip(), options.base_directory)

  # All files in the build output directory are generated one way or another.
  # There's no need to check them.
  if filename.startswith('out/') or filename.startswith('sconsbuild/'):
    continue
```

```
  # For now we're just interested in the license.
  license = license.replace('*No copyright*', '').strip()

  # Skip generated files.
  if 'GENERATED FILE' in license:
    continue

  # Support
 files which provide a choice between licenses.
  if any(item in WHITELISTED_LICENSES for item in license.split(';')):
    continue

  if not options.ignore_suppressions:
    found_path_specific = False
    for prefix in PATH_SPECIFIC_WHITELISTED_LICENSES:
      if (filename.startswith(prefix) and
          license in PATH_SPECIFIC_WHITELISTED_LICENSES[prefix]):
        found_path_specific = True
        break
    if found_path_specific:
      continue

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

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


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

```
 option_parser.add_option('--ignore-suppressions',
                          action='store_true',
                          default=False,
                          help='Ignore path-specific license whitelist.')
 options, args = option_parser.parse_args()
 return check_licenses(options, args)


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

Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD

==========

1. Extra packages required
2. Compiling Wireshark
3. Berkeley Packet Filter (BPF) requirement
4. Running Wireshark as a non-root user

1. Extra packages required

Wireshark requires a number of additional programs to function.
Install the latest versions of the following programs before compiling:

The easiest way to install these is by using your operating system's
ports or packages system. If you prefer to build from source, the programs
can be found at the following sites:

glib 2.32 or later:
ftp.gnome.org:/pub/gnome/sources/glib/
http://ftp.gnome.org/pub/gnome/sources/glib/

pkgconfig:
http://pkgconfig.freedesktop.org/releases/

python 3.4 or later:
https://www.python.org/downloads/source/

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

Qt 5.2 or later:
http://download.qt-project.org/official_releases/qt/

(These programs may require additional dependencies)

Additional programs can be used to enhance Wireshark's functionality.
These can be found by typing ./configure --help or looking at the output

at the end of running the configure script.

2. Compiling Wireshark

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

```
./configure
make
make install
```

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

3. Berkeley Packet Filter (BPF) requirement

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

```
ls -l /dev/bpf*
```

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

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

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

4. Running wireshark as a non-root user

Since the bpf devices are read-only by the owner (root), you normally
have to run packet capturing programs such as Wireshark as root. It is
safer to run programs as a non-root user if possible. To run Wireshark
as a non-root user, you must change the permissions on the bpf device(s).
If
you are the only user that needs to use Wireshark, the easiest way
is to change the owner of each bpf device to your username. You can also

add the read/write ability to the group (typically wheel) and add users
that need to use Wireshark to the wheel group. Check your operating
system's documentation on how to make permanent these changes as they
are often reset upon reboot; if /dev is implemented with devfs, it might
be possible to configure devfs to create all bpf devices owned by a
particular user and/or group and with particular permissions. In
FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules
file with content such as

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

where "mode and permissions" can include clauses such as

 mode {octal permissions}

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

 user {user}

to set the user who owns the device, or

 group {group}

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

 devfs_system_ruleset=localrules

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

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

will grant read and write permissions on all BPF devices to all users in
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1.134 libgpg-error 1.32

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1.141 go-radix 1.0.0

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1.142 avahi 0.7

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1.143 libcap 2.25

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1.146 tcp-wrappers 7.6

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1.147 graceful 1.2.15

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1.150 libnl3 3.4.0

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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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A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

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If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

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b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

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The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data
structure
layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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4. Combined Works.

You may convey a Combined Work under terms of your choice that,

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notices during
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suitable for, and under terms that permit, the user to
recombine or relink the Application with a modified version of
the Linked Version to produce a modified Combined Work, in the
manner specified by section 6 of the GNU GPL for conveying
Corresponding Source.

1) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (a) uses at run time
a copy of the Library already present on the user's computer
system, and (b) will operate properly with a modified version
of the Library that is interface-compatible
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e) Provide Installation Information, but only if you would otherwise
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necessary to install and execute a modified version of the
Combined Work produced by recombining or relinking the
Application with a modified version of the Linked Version. (If
you use option 4d0, the Installation Information must accompany
the Minimal Corresponding Source and Corresponding Application
Code. If you use option 4d1, you must provide the Installation
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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 that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

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==========

compiler_rt License

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@appendixsubsec Preamble

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free software---to make sure the software is free for all its users.

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

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.

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifinfo
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A ``library'' means a collection of software functions and/or data
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(which use some of those functions and data) to form executables.

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Library'' means
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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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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
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The modified work must itself be a software library.

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

@item
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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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 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.

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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
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@item
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However,
linking a ``work that uses the Library'' with the Library
creates an executable that is a derivative of the Library (because it
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
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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.

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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
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@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

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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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@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

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

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

<program> Copyright (C) by Bruce Korb - all rights reserved
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1.154 ncftp 3.2.2

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1.155 sg3-utils 1.45

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Douglas Gilbert
10th April 2012

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1.157 flexnet-publisher 10.8.0.1

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```
[core]
 repositoryformatversion = 0
 filemode = true
 bare = false
 logallrefupdates = true
[remote "origin"]
 url = https://dscm.esl.cisco.com/git/153/comp-15304913.git
 fetch = +refs/heads/*:refs/remotes/origin/*
[branch "skywalker_com"]
 remote = origin
 merge = refs/heads/skywalker_com
333f8b22c5dad178e0e0fc0db61cc88b252a5a4c
[core]
 repositoryformatversion = 0
 filemode = true
 bare = false
 logallrefupdates = true
[remote "origin"]
 url = https://dscm.esl.cisco.com/git/153/comp-15301477.git
 fetch = +refs/heads/*:refs/remotes/origin/*
[branch "h_cn12k"]
 remote = origin
 merge = refs/heads/h_cn12k
ref: refs/remotes/origin/skywalker_com
0000000000000000000000000000000000000000 18b34bd8ae4af33255a6f417361e11786b620994 nxbld
<nxbld@cisco.com> 1571052915 -0700 fetch origin +refs/notes/*:refs/notes/* +refs/heads/*:refs/remotes/origin/*:
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```

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1t|specfiles/mds_huashan.licspec]]i<]]i<:2D#22Eyspecfiles/mds_inagua.licspec]18]]i^`=2
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filemode = true
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fetch = +refs/heads/*:refs/remotes/origin/*
[branch "skywalker_com"]
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merge = refs/heads/skywalker_com
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<nxbld@cisco.com> 1571052911 -0700 checkout: moving from skywalker_com to skywalker_com/37
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72f82a676e4e8a7e8afdf779f565129030a3b2d3 'refs/notes/acme' of https://dscm.esl.cisco.com/git/153/comp-15304913
bb5dd4e3d533c9da4a0346dec4e99db159444284 branch 'atherton_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
b8aff37d77e764c796d1d0c28f2762c01ac53d7b branch 'avalon_nx_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
a99b88badbd4272519eee57ccc729e054c977969 branch 'beverlyhills_com' of
https://dscm.esl.cisco.com/git/153/comp-15304913
6adacf0ec9833cb347105b9e47b64b225e8ad77f branch 'beverlyhills_rel_8_2_1_com' of
https://dscm.esl.cisco.com/git/153/comp-15304913
93d12f881c6fe530912b4b211a67c226f5a0a6f6 branch 'calculon' of https://dscm.esl.cisco.com/git/153/comp-15304913
2c44772f070b427bbe767384281cdc2b17c45dd2 branch 'calculon2' of https://dscm.esl.cisco.com/git/153/comp-

15304913
f2dad64daa260f5464c4192f0d687234345cf571 branch 'calculon_tsh' of https://dscm.esl.cisco.com/git/153/comp-15304913
1a3e4b284cd4bbbf1236f01feb943b593385afbc branch 'cupertino_com'
of https://dscm.esl.cisco.com/git/153/comp-15304913
333f8b22c5dad178e0e0fc0db61cc88b252a5a4c branch 'davis_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
532ad52e38441b5c968d70e7ee1842532cf38ef4 branch 'davis_rel_8_4_2_com' of
https://dscm.esl.cisco.com/git/153/comp-15304913
81558d725c512dea80115034bd969ae7ab82971d branch 'h_brewdog' of https://dscm.esl.cisco.com/git/153/comp-15304913
cb5e960353d156b29d0f7887df66ab8a1b76f8f7 branch 'h_dev' of https://dscm.esl.cisco.com/git/153/comp-15304913
d87970b05607ec1feb037391dbd6269e79de749b branch 'h_dev_sa_ft' of https://dscm.esl.cisco.com/git/153/comp-15304913
71caa948731b1c288916c62c49dd08c79bf86be4 branch 'h_dev_wrl8' of https://dscm.esl.cisco.com/git/153/comp-15304913
532a8e0d81ea4c06fc05ec1ff0b2446b7075609e branch 'h_fretta_jr2' of https://dscm.esl.cisco.com/git/153/comp-15304913
2a7b35189a3c505ab0f6b8981175dd36bbadea93 branch 'h_wrl8_toolchain' of
https://dscm.esl.cisco.com/git/153/comp-15304913
3081e36dc98bdbad6668df02fc53b3fbe91c2043 branch
'hamilton' of https://dscm.esl.cisco.com/git/153/comp-15304913
e580fe800a23ae12cab1b4c3948bfcf3dc7e6943 branch 'hmr1' of https://dscm.esl.cisco.com/git/153/comp-15304913
f853df991f4ddabf796e4905b1ea8f80aa68430d branch 'hyams' of https://dscm.esl.cisco.com/git/153/comp-15304913
c82de33facbe8dcaa7471d6448cbc2692c23133f branch 'i_wrl8_toolchain' of
https://dscm.esl.cisco.com/git/153/comp-15304913
c567f993b995c707682ad3e4024dcada9170a44a branch 'iluka' of https://dscm.esl.cisco.com/git/153/comp-15304913
35703830b1028279212d18127310b1f537de2600 branch 'india-bnb' of https://dscm.esl.cisco.com/git/153/comp-15304913
8497e8737769f1623677fb90c1ac1177217fafd9 branch 'infinity_25k' of https://dscm.esl.cisco.com/git/153/comp-15304913
4d55199f60767c881ef6b39416561dd1ce82634f branch 'iplus' of https://dscm.esl.cisco.com/git/153/comp-15304913
1d26670bb31832b0da818b9f633b6bf0be96a60e branch 'iplus_b' of https://dscm.esl.cisco.com/git/153/comp-15304913
dd52ff0c8ac184ae065ca78274831af0ebfa5da4 branch
'iplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15304913
1a92f4a9cb1a28a9aaadccc739948747912580f7 branch 'iplus_dev_fact' of https://dscm.esl.cisco.com/git/153/comp-15304913
85d1811cced66133ecd9d8b47f8f2f6c0bdf59a7 branch 'irvine' of https://dscm.esl.cisco.com/git/153/comp-15304913
142205fcefcbc46a032199f2c0a3f1cc299d2fe0 branch 'janjuc_dev' of https://dscm.esl.cisco.com/git/153/comp-15304913
3a4b31955ff71aaadba641deec29bc2c71281a5b branch 'kokomo' of https://dscm.esl.cisco.com/git/153/comp-15304913
efe9493ec6a6085f630d8838eb84c6d475db6a84 branch 'main' of https://dscm.esl.cisco.com/git/153/comp-15304913
96c72647f529934f90fcf96b7198e97334a1dec0 branch 'rel_7_3_0_d1_1_1453097459' of
https://dscm.esl.cisco.com/git/153/comp-15304913
fbfc3d1578037627321f90c6010d7bfae20124ec branch 'rel_7_3_0_d1_1c_1481384364' of
https://dscm.esl.cisco.com/git/153/comp-15304913

d5e42294f3511cdacc487532c4018d64b015d874 branch 'rel_7_3_0_d1_1c_1481435930' of https://dscm.esl.cisco.com/git/153/comp-15304913
b93817d61457625d280905071d174036cf301ed5 branch 'rel_7_3_0_d1_1c_1481436596' of https://dscm.esl.cisco.com/git/153/comp-15304913
caaa75e0b83f705095b8e9759a6c2468a1e07e98 branch 'skywalker_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
2222107d6de87a1b37f03c99b2022e8b275e30f0 branch 'skywalker_rel_8_2_0_sk_0_148_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
1c96cf1f4347ad31fca1d1219e080c318d89e4e3 branch 'skywalker_rel_8_3_0_cv_0_5sa_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
57b2eb170c4b4a74ec56c9865f04d4820cb6f65a branch 'sl_sch' of https://dscm.esl.cisco.com/git/153/comp-15304913
f416ba248c03ff4cbe2fa9c5c65f8eb4103c2141 branch 'sl_sch_zn73' of https://dscm.esl.cisco.com/git/153/comp-15304913
ac04e81e2b15b0347e9b7608f46e9153a825a1df branch 'sync_skywalker_73_160407_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
99bc53ed7fce2afa73dceadb26697946d127596b branch 'ucs_h_fex_dev' of https://dscm.esl.cisco.com/git/153/comp-15304913
5acaa4186df793d120ec5fd8521a890e82d011e3 branch 'udb' of https://dscm.esl.cisco.com/git/153/comp-15304913
6e219379ef625b23c0ee622dcd98e8566dcbf4ac branch 'yushan_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
ca62ee705ae8500d6b466de450d2ac1930c9cce8 branch 'zulu' of https://dscm.esl.cisco.com/git/153/comp-15304913
0000000000000000000000000000000000000000 72f82a676e4e8a7e8afdf779f565129030a3b2d3 nxbld <nxbld@cisco.com> 1571052914 -0700 fetch origin +refs/notes/*:refs/notes/* +refs/heads/*:refs/remotes/origin/*: storing ref
8c2f854e2708bbf9c727a1c92ef848dec8793c10
6ab876a0dbcfa2c947e799e27a35dca800739608
0000000000000000000000000000000000000000 6ab876a0dbcfa2c947e799e27a35dca800739608 nxbld <nxbld@cisco.com> 1571052908 -0700 fetch origin +refs/notes/*:refs/notes/* +refs/heads/*:refs/remotes/origin/*: storing ref
DIRC
]]o$x&]]o$x&:3*yx5M[22export/isan/lic_common.h]]o%M]]o%M:3*(
Cemw7export/isan/lic_defs.h]]o&b]]o&b:3*U[C99$p~export/isan/lic_features.h]]o&SP]]o&SP:3*F91!export/isan/lic_features_itasca.h]]o'3]]o'3:3*yXv5xDGqUexport/isan/lic_intf.h]]o(I]]o(I:3*%Ff]23>:69#export/isan/lic_smart_common_defs.h]]o((]]o((:3*^*$>f
bexport/isan/lic_smart_defs.h]]o)Lc@]]o)Lc@:3*)J:%Oqy#export/isan/lic_smart_intf.h]]o)
]]o)
:3*0l0{;r
dXexport/isan/licmgr_syserr_def.h]]o*}]]o*}:3*0\azq[d`|!export/isan/licmgr_syslog_def.msg]]o+%]]o+%:3*j _
#w4IKLP lic_api.c]]o+x]]o+x :3*l*NM~vs;lic_api_isan.c]]o,0]]o,0:7U, /MTm_wO module.mkTREEX13 1
_@*^Lh?P}export10 1
Kwo*$GVisan10 0
,|_*)DDWPRNuDf>
18b34bd8ae4af33255a6f417361e11786b620994
0000000000000000000000000000000000000000 c3da9d643002251226ecb9ff51aec487cca6a3e6 nxbld <nxbld@cisco.com> 1571052903 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301477.git
c3da9d643002251226ecb9ff51aec487cca6a3e6 6317bf6b870ced4150254b3da3f7958fa95f2ae2 nxbld

<nxbld@cisco.com> 1571052905 -0700 checkout: moving from h_cn12k to davis_com/4
18b34bd8ae4af33255a6f417361e11786b620994 'refs/notes/acme' of https://dscm.esl.cisco.com/git/153/comp-15301478
a9e968e0393d063a27fb613ebd8013c3cfd23235 branch 'a1_5_id_integration' of https://dscm.esl.cisco.com/git/153/comp-15301478
afe8550a2a99bd55b610046fdca6d0e8e16e47eb branch 'acme_empty' of https://dscm.esl.cisco.com/git/153/comp-15301478
308364ff4b363199edaa4c72c54be421e6eafab9 branch 'airstrike_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
d951635e6599d6d825f6f7d76e00b0d980ffd9fd branch 'airstrike_platform_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
81f8d38112706cfe228a221cdd72a9588062b139 branch 'albacore' of https://dscm.esl.cisco.com/git/153/comp-15301478
bd8ee01e51eba6d8807f386f7d3a10bc5cc9f65b branch 'amazon' of https://dscm.esl.cisco.com/git/153/comp-15301478
cb09ca28abb6bb79ae7fa12660ddfdb4e22f673d branch 'andaman' of https://dscm.esl.cisco.com/git/153/comp-15301478
0d9988b3de90d054e1666f39f9e474563369c7c7 branch 'ankaa1_4' of https://dscm.esl.cisco.com/git/153/comp-15301478
8e974fd806e21178acbf71b1a40a25e835f3aa6a branch 'ankara' of https://dscm.esl.cisco.com/git/153/comp-15301478
c8bf2a2ce2ecd0a25787ac002768f580bca55a3a branch 'aons_foundation_fea' of https://dscm.esl.cisco.com/git/153/comp-15301478
f0153cc8691a03ddfeb9fe09487a2ab24a92bb24 branch 'aons_foundation_phase2' of https://dscm.esl.cisco.com/git/153/comp-15301478
209f245ff9d10439d57457153c1c53eca6b14a0e branch 'ashfield' of https://dscm.esl.cisco.com/git/153/comp-15301478
cc56533d43f9e39a60f2a7bfb62d8b1938bfd530 branch 'au' of https://dscm.esl.cisco.com/git/153/comp-15301478
42f3803c386f1eb208fb1675c2fc0f6c91cc28c4 branch 'auriga' of https://dscm.esl.cisco.com/git/153/comp-15301478
0e2abdde0112e8faf7fe7376575ae41c0d7fac3c branch 'auriga_413_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301478
4e57527e61c55498dde96981a2763819df7559b8 branch 'avalon' of https://dscm.esl.cisco.com/git/153/comp-15301478
5eba6175fe77386b88338a17e2d00642c831d8b2 branch 'avalon_nx_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
a5cd77b65d4b8b7ddede9b201d7fc9b7b3bc3c5d branch 'avalon_nx_rel_8_1_1a_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
98155803684c6c32501bc515cc81136a43a74f5c branch 'avatar_2' of https://dscm.esl.cisco.com/git/153/comp-15301478
da0988fffdd53577b908ea3ec8af40f78068b5ec branch 'baikal-rib' of https://dscm.esl.cisco.com/git/153/comp-15301478
9434333d1a53a7e400b722d14c941908313d3ee7 branch 'baikal_22_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
0ba8b4111856085b1761b4fc1efb7ec3e2d3015c branch 'baikal_23_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
9f8cec8effef5fa0652a44107950cf9433f40f3b branch 'baselard' of https://dscm.esl.cisco.com/git/153/comp-15301478
d2b8f4e3fe94a3c793f867a399bbb46e0d287527 branch 'baselard_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478

02c73c9c0f8ea32a343152ab5c2ea053b0c412ba branch 'bender' of https://dscm.esl.cisco.com/git/153/comp-15301478
a3d0176a1cee663ff1ae51273b36819b8f916157 branch 'bender_bf' of https://dscm.esl.cisco.com/git/153/comp-15301478
69265b091ea751da11ba4ca4e41cdf7e6a4d789a branch 'bender_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301478
c6a472ed4cbdfe3e7a64978035aeaa248895f965 branch 'beverlyhills' of https://dscm.esl.cisco.com/git/153/comp-15301478
4d00b9d06b0ea7ee6fda3dd73c6b869d67a5dded branch 'beverlyhills_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
faa7f394239f28a25f6e5d8196b3ee28413b9d67 branch 'beverlyhills_rel_8_2_3_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
497711a3e17bf818e6903106fe026715895514dc branch 'beverlyhills_rel_8_2_4' of https://dscm.esl.cisco.com/git/153/comp-15301478
9cb4a4d0c61746e528a5e20645a7512c7e9ea776 branch 'beverlyhills_rel_8_2_4_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
c9e422c3edab989cd757e6eb76c57fdad99a61b6 branch 'bl' of https://dscm.esl.cisco.com/git/153/comp-15301478
8eccefee47743483aa4ff7e0a5907eb3ce03875d branch 'bogota' of https://dscm.esl.cisco.com/git/153/comp-15301478
a5b7f1d055b928bdfaf21ae63d201ad6a7d87067 branch 'bouncer_main_31' of https://dscm.esl.cisco.com/git/153/comp-15301478
581840ee91bca23db25ff210ee8f48f088c924fd branch 'bouncer_main_new_3_3' of https://dscm.esl.cisco.com/git/153/comp-15301478
cd09c803cf7b3cb2d7802156ff44377aa66aa93d branch 'brixton' of https://dscm.esl.cisco.com/git/153/comp-15301478
bf01624ddb7848c137cc3fb9cb41340e950c1507 branch 'bronte' of https://dscm.esl.cisco.com/git/153/comp-15301478
f9059ec29402fd4ee5be7a3d2c1220b237dfab40 branch 'c4710ace-a1_7-throttle' of https://dscm.esl.cisco.com/git/153/comp-15301478
7ef062aca523fab7b179dbfc2b28531990e1f04d branch 'cairo' of https://dscm.esl.cisco.com/git/153/comp-15301478
ce9962af46904057f11fb9708dedb4d54e0bb5c1 branch 'calculon' of https://dscm.esl.cisco.com/git/153/comp-15301478
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947493009e8b5bc81c4196a0de081e1560a7abfe branch 'calculon_tsh' of https://dscm.esl.cisco.com/git/153/comp-15301478
749a41a6d3b20ba21a43d21c873d1b3af59eab05 branch 'camden' of https://dscm.esl.cisco.com/git/153/comp-15301478
c89e8dbd92b78b6bc948f1cdec994cfa683bb779 branch 'cat6k-fex' of https://dscm.esl.cisco.com/git/153/comp-15301478
23dd6099d12bfe2707a0be1814fc5a9702ff62d7 branch 'cinquedia' of https://dscm.esl.cisco.com/git/153/comp-15301478
903505c805418ae362f73860747d1b78b1eba6d1 branch 'cinquedia_bld2_proj' of https://dscm.esl.cisco.com/git/153/comp-15301478
fb27e70ceb2a644c4f99786faf1ece9737ef4f6a branch 'cinquedia_next' of https://dscm.esl.cisco.com/git/153/comp-15301478
145bc311522c112f9571db2cd33c5324ff767666 branch 'converge_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478

14918d493e18d785fae043824958b0fa32926d97 branch 'csg2_main' of https://dscm.esl.cisco.com/git/153/comp-15301478
4b765db93d2df109734312bdff039521f8112a46 branch 'cupertino_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
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bdff5834f036b12d1bf2ac1e5171097914419757 branch 'daox' of https://dscm.esl.cisco.com/git/153/comp-15301478
fb3e10d6fd32e9be210d75893c68e00e1b2f8a92 branch 'daox_vem_ss-project' of https://dscm.esl.cisco.com/git/153/comp-15301478
37c7bc3e9015888ae49d995ab027c2d2d96ea8c0 branch 'db' of https://dscm.esl.cisco.com/git/153/comp-15301478
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2c341ff12fd1d96eb8046af4783ccafaa6919a4a branch 'delhi' of https://dscm.esl.cisco.com/git/153/comp-15301478
6759232f6dc5b608dab6f45ee64e3c003e7c942e branch 'dominica' of https://dscm.esl.cisco.com/git/153/comp-15301478
dd11747c110645522f329da909751dd75b5a7252 branch 'dp_n3500' of https://dscm.esl.cisco.com/git/153/comp-15301478
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03badb12a0b66b1421147d9b4a8121e6a7b7bb3b branch 'eagle' of https://dscm.esl.cisco.com/git/153/comp-15301478
693b8b755085214667f3fa7ef1879c99f7034b99 branch 'eagle_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
3a98b8c78bff8bf035238d9ceca7b72413cbfbbb branch 'earth_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
4a1074031c1dd029a747ee84fee81fda704a3548 branch 'eden_fcs_mtc' of https://dscm.esl.cisco.com/git/153/comp-15301478
b02be2a6ea95efaf17e2e7efb17d08371a000472 branch 'eden_fcs_trident' of https://dscm.esl.cisco.com/git/153/comp-15301478
e87da2deb0008f582ab8d3cceb74d48cc6213a88 branch 'eden_feat' of https://dscm.esl.cisco.com/git/153/comp-15301478
62b18d674216af92cb8ee958fe094a9e2121a7a9 branch 'edinburgh' of https://dscm.esl.cisco.com/git/153/comp-15301478
cb9d1e296c178aa2ce9a0227cdbec9b194ea6283 branch 'eldorado' of https://dscm.esl.cisco.com/git/153/comp-15301478
576a1d4500233107515f5e524832451c056c33bf branch 'erocks' of https://dscm.esl.cisco.com/git/153/comp-15301478
f936b8772ce3c0969d1530fc0a912c0e06b1cb96 branch 'erocks_plus' of https://dscm.esl.cisco.com/git/153/comp-15301478
6fa109d86c4d75e1c2d01318402cf2b257e1535d branch 'f3_vinci' of https://dscm.esl.cisco.com/git/153/comp-15301478
cca1814aba67221e0a2a423c6d49717f6999ec64 branch 'f_3500' of https://dscm.esl.cisco.com/git/153/comp-15301478
f725771fc2469584a5b3a3780e7673d112aabdd8 branch 'ffex_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
ea6288281cdf21c428b592521cafcee2150b7628 branch 'fh' of https://dscm.esl.cisco.com/git/153/comp-15301478
e8beebbb8f177e4ab4a15b90b260302ebbb97caa branch 'firststrike_dev' of https://dscm.esl.cisco.com/git/153/comp-

15301478
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1.158 libidn 2.3.0

1.158.1 Available under license :

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*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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Alan Cox <alan@lxorguk.ukuu.org.uk>
 Video4Linux interface and 2.1.x kernel adaptation

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 Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
 Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
 ConferenceTV card
```

+ many more (please mail me if you are missing in this list and would

```
     like to be mentioned)
/* 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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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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Ralph Metzler <rjkm@metzlerbros.de>
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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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 for the nxt2004 frontend driver

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 for merging the nxt2002 and nxt2004 modules into a
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1.163 python-setuptools 40.0.0

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1.166 ncftp 3.2.6

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1.167 pciutils 3.3.1

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"""
A library to support the Internationalised Domain Names in Applications

```
(IDNA) protocol as specified in RFC 5890 et.al. This new methodology,
known as IDNA 2008, can generate materially different results to the
previous standard. The library can act as a drop-in replacement for
the "encodings.idna" module.
"""

import io, sys
from setuptools import setup


def main():

  python_version = sys.version_info[:2]
  if python_version < (2,6):
     raise SystemExit("Sorry, Python 2.6 or newer required")

  package_data = {}
  exec(open('idna/package_data.py').read(), package_data)

  arguments = {
     'name': 'idna',
     'packages': ['idna'],
     'version': package_data['__version__'],
     'description': 'Internationalized Domain Names in Applications (IDNA)',
     'long_description': io.open("README.rst", encoding="UTF-8").read(),
     'author': 'Kim Davies',
     'author_email': 'kim@cynosure.com.au',
      'license': 'BSD-like',
     'url': 'https://github.com/kjd/idna',
     'classifiers': [
        'Development Status :: 5 - Production/Stable',
        'Intended Audience :: Developers',
        'Intended Audience :: System Administrators',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
     ],
     'test_suite':
```

```
 'tests',
  }

  setup(**arguments)

if __name__ == '__main__':
  main()
```

Found in path(s):
* /kjd-idna-v2-7-0-g5d76cb6-1-tar-gz/kjd-idna-77c8bce/setup.py

1.169 pinentry 0.9.2

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1.175 gdbm 1.8.3

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1.177 curl 7.74.0

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1.184 shared-mime-info 1.1

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1. Seti UI - A subtle dark colored UI theme for Atom. (https://github.com/jesseweed/seti-ui)

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1.193 libassuan 2.5.1

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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:

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1.201 python-setuptools 56.0.0

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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 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
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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)
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2.1.2	2.1.1	2002	PSF	yes
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PLY (Python Lex-Yacc) Version 3.11

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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex
and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.
  If you know how to use these tools in C, you will find PLY
  to be similar.

- PLY provides *very* extensive error reporting and diagnostic
  information to assist in parser construction. The original
  implementation was developed for instructional purposes. As
  a result, the system tries to identify the most common types
  of errors made by novice users.

- PLY provides full support for empty productions, error recovery,
  precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient,
  better suited to large grammars, and which has a number of nice
  properties when dealing with syntax errors and other parsing problems.
  Currently, PLY builds its parsing tables using the LALR(1)
  algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers.
  This greatly simplifies the task of parser construction since it reduces
  the number of files and eliminates the need to run a separate lex/yacc
  tool before running your program.

- PLY can be used to build parsers for "real" programming languages.
  Although it is not ultra-fast due to its Python implementation,
  PLY can be used to parse grammars consisting of several hundred
  rules (as might be found for a language like C). The lexer and LR
  parser are also reasonably efficient when parsing typically
  sized programs. People have used PLY to build parsers for
  C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files : lex.py and yacc.py. These are contained
within the 'ply' directory which may also be used as a Python package.
To use PLY, simply copy the 'ply' directory to your project and import
lex and yacc from the associated 'ply' package. For example:

    import ply.lex as lex

```
   import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py
individually and use them as modules. For example:

```
   import lex
   import yacc
```

The file setup.py can be used to install
ply using distutils.

The file doc/ply.html contains complete documentation on how to use
the system.

The example directory contains several different examples including a
PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
============
PLY requires the use of Python 2.6 or greater. However, you should
use the latest Python release if possible. It should work on just
about any platform. PLY has been tested with both CPython and Jython.
It also seems to work with IronPython.

Resources
=========
More information about PLY can be obtained on the PLY webpage at:

```
   http://www.dabeaz.com/ply
```

For a detailed overview of parsing theory, consult the excellent
book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and
Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown
may also be useful.

The GitHub page for PLY can be found at:

```
   https://github.com/dabeaz/ply
```

An old and
relatively inactive discussion group for PLY is found at:

```
   http://groups.google.com/group/ply-hack
```

Acknowledgments
===============

A special thanks is in order for all of the students in CS326 who
suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x.
Andrew Waters and Markus Schoepflin were instrumental in reporting bugs
and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
==========
PLY-3.0 the first PLY release to support Python 3. However, backwards
compatibility with Python 2.6 is still preserved. PLY provides dual
Python 2/3 compatibility by restricting its implementation to a common
subset of basic language features. You should not convert PLY using
2to3--it is not necessary and may in fact break the implementation.

Example
=======

Here is a simple example showing a PLY implementation
 of a calculator
with variables.

```
  # -----------------------------------------------------------------------------
  # calc.py
  #
  # A simple calculator with variables.
  # -----------------------------------------------------------------------------

  tokens = (
     'NAME','NUMBER',
     'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
     'LPAREN','RPAREN',
     )

  # Tokens

  t_PLUS    = r'\+'
  t_MINUS   = r'-'
  t_TIMES   = r'\*'
  t_DIVIDE  = r'/'
  t_EQUALS  = r'='
  t_LPAREN  = r'\('
  t_RPAREN  = r'\)'
  t_NAME    = r'[a-zA-Z_][a-zA-Z0-9_]*'

  def t_NUMBER(t):
```

```
    r'\d+'
    t.value = int(t.value)
    return t

# Ignored characters
t_ignore = " \t"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence
rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
    )

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression'''
    if p[2] == '+'  : p[0] = p[1] + p[3]
    elif p[2] == '-': p[0] = p[1] - p[3]
    elif p[2] == '*': p[0] = p[1] * p[3]
    elif p[2] == '/': p[0] = p[1] / p[3]
```

```
  def p_expression_uminus(p):
      'expression : MINUS expression %prec UMINUS'
      p[0] = -p[2]

  def p_expression_group(p):
      'expression : LPAREN
 expression RPAREN'
      p[0] = p[2]

  def p_expression_number(p):
      'expression : NUMBER'
      p[0] = p[1]

  def p_expression_name(p):
      'expression : NAME'
      try:
          p[0] = names[p[1]]
      except LookupError:
          print("Undefined name '%s'" % p[1])
          p[0] = 0

  def p_error(p):
      print("Syntax error at '%s'" % p.value)

  import ply.yacc as yacc
  yacc.yacc()

  while True:
      try:
          s = raw_input('calc > ')   # use input() on Python 3
      except EOFError:
          break
      yacc.parse(s)
```

Bug Reports and Patches
==========
My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page
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-- Dave

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1.212 mtd-utils 1.5.1

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1.213 binutils 2.36.1

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

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the documentation, and info on specific files will go into an AUTHORS
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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;
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intentionally leaving anyone out.

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

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
on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

d) If a facility in the modified

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

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

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

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

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

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

Once this change is made in a given copy, it is irreversible for

that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may

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

6. As an exception to the Sections above, you may also 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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people have made
generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

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How to Apply These Terms to Your New Libraries

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

<one line to give the library's name and a brief idea of what it does.>
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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

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

Preamble

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 Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom,
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 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.

Activities other than copying, distribution and modification are not

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

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

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

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

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

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

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

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

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

root function must still compute square roots.)

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

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

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

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

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

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

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
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1.220 procps 3.3.15

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1.221 procps 3.2.8

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<one line to give the program's name and a brief idea of what it does.>
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1.222 cjson 1.7.15

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==========

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1.223 activation 1.1

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1.224 tdb 1.45.6

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
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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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell   2005
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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

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

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1.226 montanaflynn-stats 0.0.0-20171201202039-1bf9dbcd8cbe

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Upstream-Name: stats
Source: https://github.com/montanaflynn/stats

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1.230 goautoneg 0.0.0-20191010083416-a7dc8b61c822

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1.231 pkcs8 0.0.0-20181117223130-1be2e3e5546d

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1.232 go-testing-interface 1.14.1

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1.243 sg3-utils 1.47

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Douglas Gilbert
4th October 2021

1.244 intern 1.0.0

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1.245 json-iterator-go 1.1.12

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1.246 goprocinfo 0.0.0-20210130143923-c95fcf8c64a8

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1.247 go-isatty 0.0.14

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1.248 log4j-api 2.17.1

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1.249 apache-log4j 2.17.1

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1.250 go-colorable 0.1.12

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1.252 orion-ssh2 214

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1.253 sha1sum-aws_signing_client 0.0.0-20200229211254-f7815c59d5c1

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1.254 ghodss-yaml 1.0.1-0.20190212211648-25d852aebe32

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1.270 gcache 0.0.1

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1.271 goexpect 0.0.0-20210430020637-ab937bf7fd6f

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1.272 gojsonpointer 0.0.0-20180127040702-4e3ac2762d5f

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1.273 sysfsutils 2.1.0

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

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1.274 libxml2 2.9.14

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1.275 go-yaml 3.0.1

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1.276 libnsl 2.28

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

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

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

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

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

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

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

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

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

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1.277 libnsl 2.0.0

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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.

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1.278 go-hclog 1.2.0

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1.279 x-time-rate 0.0.0-20220411224347-583f2d630306

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1.280 hcl 1.0.1-vault-3

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##
Constant-time SSSE3 AES core implementation.
version 0.1
##
By Mike Hamburg (Stanford University), 2009

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// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
 return false
}
otp
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mgo - MongoDB driver for Go

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```
<PageHeader as |p|>
 <p.levelLeft>
  <h1 class="title is-3">License</h1>
 </p.levelLeft>
</PageHeader>
<MessageError @model={{model}} />
{{#if isTemporary}}
 <section class="box is-sideless is-fullwidth">
  <AlertBanner
   @type="warning"
   @message="Your temporary license expires in {{date-from-now expirationTime}} and your vault will seal.
Please enter a valid license below."
   @class="license-warning"
   data-test-cluster-status
   data-test-warning-text
  />
  <span class="title is-5" data-test-temp-license>Temporary license</span>
  <form {{action "saveModel" text on="submit"}}>
   <div class="box is-shadowless is-fullwidth is-marginless">
    <div class="field">
     <label for="license-id" class="is-label">License</label>
     <div class="control">
      {{input id="license-id" value=text autocomplete="off" class="input" data-test-text-input="data-test-text-
input"}}
     </div>
    </div>
   </div>
   <div class="field">
```

```
      <div class="control">
       <button type="submit" class="button is-primary" data-test-save-button>Save</button>
      </div>
    </div>
  </form>
 </section>
{{else}}
 <section class="box is-sideless is-fullwidth">
  <span class="title is-5">Details</span>
  {{#if showForm}}
   <form {{action "saveModel" text on="submit"}}>
    <div class="field">
     <label for="license-id" class="is-label">License</label>
     <div class="control">
      {{input id="license-id" value=text autocomplete="off" class="input" data-test-text-input="data-test-text-
input"}}
     </div>
    </div>
    <div class="field is-grouped">
     <div class="control">
      <button type="submit" class="button is-primary" data-test-save-button>Save</button>
     </div>
     <div class="control">
      <button type="button" {{action "toggleForm"}} class="button" data-test-cancel-button>Cancel</button>
     </div>

  </div>
   </form>
  {{else}}
   <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
    {{info-table-row label="License ID" value=licenseId}}
    {{#info-table-row label="Valid from" value=startTime}}
     {{date-format model.startTime 'MMM DD, YYYY hh:mm:ss A'}} to {{date-format expirationTime 'MMM
DD, YYYY hh:mm:ss A'}}
    {{/info-table-row}}
   </div>
   <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
    <div class="control">
     <button type="button" {{action "toggleForm"}} class="button" data-test-enter-button>Enter new
license</button>
    </div>
   </div>
  {{/if}}
  </section>
 {{/if}}
<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
 <span class="title is-5">Features</span>
 <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
```

```
  {{#each featuresInfo as |info|}}
    {{#info-table-row label=info.name value=(if
 info.active "Active" "Not Active") data-test-feature-row="data-test-feature-row"}}
      {{#if info.active}}
      <Icon
        @glyph="check-circle-outline"
        @size="l"
        class="icon-true"
        aria-hidden="true"
      /><span data-test-feature-status>Active {{#if info.count}}&mdash;
       {{info.count}} standby nodes allotted{{/if}}</span>
      {{else}}
        <Icon
          @glyph="cancel-circle-outline"
          @size="l"
          class="icon-false"
          aria-hidden="true"
        /><span data-test-feature-status>Not Active</span>
      {{/if}}
    {{/info-table-row}}
  {{/each}}
 </div>
</section>
```

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Protocol Buffers for Go with Gadgets

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

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

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```
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package github

import (
 "context"
 "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
 Name *string `json:"name,omitempty"`
 Path *string `json:"path,omitempty"`

 SHA         *string  `json:"sha,omitempty"`
 Size        *int     `json:"size,omitempty"`
 URL         *string  `json:"url,omitempty"`
 HTMLURL     *string  `json:"html_url,omitempty"`
 GitURL      *string  `json:"git_url,omitempty"`
 DownloadURL *string  `json:"download_url,omitempty"`
 Type        *string  `json:"type,omitempty"`
 Content     *string  `json:"content,omitempty"`
 Encoding    *string  `json:"encoding,omitempty"`
 License
    *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
 return Stringify(l)
```

```
}

// License represents an open source license.
type License struct {
 Key  *string `json:"key,omitempty"`
 Name *string `json:"name,omitempty"`
 URL  *string `json:"url,omitempty"`

 SPDXID        *string   `json:"spdx_id,omitempty"`
 HTMLURL       *string   `json:"html_url,omitempty"`
 Featured      *bool     `json:"featured,omitempty"`
 Description   *string   `json:"description,omitempty"`
 Implementation *string  `json:"implementation,omitempty"`
 Permissions   *[]string `json:"permissions,omitempty"`
 Conditions    *[]string `json:"conditions,omitempty"`
 Limitations   *[]string `json:"limitations,omitempty"`
 Body          *string   `json:"body,omitempty"`
}

func (l License) String() string {
 return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s
 *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
 req, err := s.client.NewRequest("GET", "licenses", nil)
 if err != nil {
  return nil, nil, err
 }

 var licenses []*License
 resp, err := s.client.Do(ctx, req, &licenses)
 if err != nil {
  return nil, resp, err
 }

 return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
 u := fmt.Sprintf("licenses/%s", licenseName)
```

```
 req, err := s.client.NewRequest("GET", u, nil)
 if err != nil {
  return nil, nil, err
 }

 license := new(License)
 resp, err := s.client.Do(ctx, req, license)
 if err != nil {
  return nil, resp, err
 }

 return license, resp, nil
}
```

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---
layout: "api"
page_title: "/sys/license - HTTP API"
sidebar_title: "<code>/sys/license</code>"
sidebar_current: "api-http-system-license"
description: |-
The `/sys/license` endpoint is used to view and update the license used in
Vault.

`/sys/license`

~> **Enterprise Only** These endpoints require Vault Enterprise.

The `/sys/license` endpoint is used to view and update the license used in
Vault.

Read License

This endpoint returns information about the currently installed license.

Method	Path	
:----------	:----------	
`GET`	`/sys/license`	

Sample Request

```
$ curl \
  --header "X-Vault-Token: ..." \
  http://127.0.0.1:8200/v1/sys/license
```

Sample Response

```json
{
 "data": {
   "expiration_time": "2017-11-14T16:34:36.546753-05:00",
   "features": [
     "UI",
     "HSM",
     "Performance Replication",
     "DR Replication"
   ],
   "license_id": "temporary",
    "start_time": "2017-11-14T16:04:36.546753-05:00"
 },
 "warnings": [
   "time left on license is 29m33s"
 ]
}
```

Install License

This endpoint is used to install a license into Vault.

Method	Path	
:----------	:----------	
`PUT`	`/sys/license`	

Parameters

- `text` `(string: <required>)` The text of the license.

DR Secondary Specific Parameters

 - `dr_operation_token` `(string: <required>)` - DR operation token used to authorize this request.

Sample Payload

```json
{
 "text": "01ABCDEFG..."
}
```

Sample Request

```
$ curl \
  --header "X-Vault-Token: ..." \
  --request PUT \
  --data @payload.json \
  http://127.0.0.1:8200/v1/sys/license
```

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January 25, 1999

Basic Socket Interface Extensions for IPv6

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Abstract

The de facto standard application program interface (API) for TCP/IP applications is the "sockets" interface. Although this API was developed for Unix in the early 1980s it has also been implemented on a wide variety of non-Unix systems. TCP/IP applications written using the sockets API have in
the past enjoyed a high degree of portability and we
would like the same portability with IPv6 applications. But changes are required to the sockets API to support IPv6 and this memo describes these changes. These include a new socket address structure to carry IPv6 addresses, new address conversion functions, and some new socket options. These extensions are designed to provide access to the basic IPv6 features required by TCP and UDP applications, including multicasting, while introducing a minimum of change into the system and providing complete compatibility for existing IPv4 applications. Additional extensions for advanced IPv6 features (raw sockets and access to the IPv6 extension headers) are defined in another document [4].

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1. Introduction

While IPv4 addresses are 32 bits long, IPv6 interfaces are identified by 128-bit addresses. The socket interface makes the size of an IP address quite visible to an application; virtually all TCP/IP applications for BSD-based systems have knowledge of the size of an IP address. Those parts of the API that expose the addresses must be changed to accommodate the larger IPv6 address size. IPv6 also introduces new features (e.g., traffic class and flowlabel), some of which must be made visible to applications via the API. This memo defines a set of extensions to the socket interface to support the larger address size and new features of IPv6.

2. Design Considerations

There are a number of important considerations in designing changes to this well-worn API:

- The API changes should provide both source and binary compatibility for programs written to the original API. That is, existing program binaries should continue to operate when run on a system supporting the new API. In addition, existing applications that are re-compiled and run on a system supporting the new API should continue to operate. Simply put, the API changes for IPv6 should not break existing programs. An additonal mechanism

for implementations to verify this is to verify the new
symbols are protected by Feature Test Macros as described in IEEE Std 1003.1. (Such Feature Test Macros are not defined by this RFC.)

- The changes to the API should be as small as possible in order to simplify the task of converting existing IPv4 applications to IPv6.

- Where possible, applications should be able to use this API to interoperate with both IPv6 and IPv4 hosts. Applications should not need to know which type of host they are communicating with.

- IPv6 addresses carried in data structures should be 64-bit aligned. This is necessary in order to obtain optimum performance on 64-bit machine architectures.

Because of the importance of providing IPv4 compatibility in the API, these extensions are explicitly designed to operate on machines that provide complete support for both IPv4 and IPv6. A subset of this API could probably be designed for operation on systems
that support only
IPv6. However, this is not addressed in this memo.

2.1 What Needs to be Changed

The socket interface API consists of a few distinct components:

- Core socket functions.

- Address data structures.

- Name-to-address translation functions.

- Address conversion functions.

The core socket functions -- those functions that deal with such things as setting up and tearing down TCP connections, and sending and

receiving UDP packets -- were designed to be transport independent. Where protocol addresses are passed as function arguments, they are carried via opaque pointers. A protocol-specific address data structure is defined for each protocol that the socket functions support. Applications must cast pointers to these protocol-specific address structures into pointers to the generic "sockaddr" address structure when using the socket functions. These functions need not change for IPv6, but a new IPv6-specific address data structure is needed.

The "sockaddr_in" structure is the protocol-specific data structure for IPv4. This data structure actually includes 8-octets of unused space, and it is tempting to try to use this space to adapt the sockaddr_in structure to IPv6. Unfortunately, the sockaddr_in structure is not large enough to hold the 16-octet IPv6 address as well as the other information (address family and port number) that is needed. So a new address data structure must be defined for IPv6.

IPv6 addresses are scoped [2] so they could be link-local, site, organization, global, or other scopes at this time undefined. To support applications that want to be able to identify a set of interfaces for a specific scope, the IPv6 sockaddr_in structure must support a field that can be used by an implementation to identify a set of interfaces identifying the scope for an IPv6 address.

The name-to-address translation functions in the socket interface are gethostbyname() and gethostbyaddr(). These are left as is and new functions are defined to support IPv4 and IPv6. Additionally, the POSIX 1003.g draft [3] specifies a new nodename-to-address translation function which is protocol independent. This function can also be used with IPv4 and IPv6.

The address conversion functions -- inet_ntoa() and inet_addr() -- convert IPv4 addresses between binary and printable form. These functions are quite specific to 32-bit IPv4 addresses. We have designed two analogous functions that convert both IPv4 and IPv6 addresses, and carry an address type parameter so that they can be extended to other protocol families as well.

Finally, a few miscellaneous features are needed to support IPv6. New interfaces are needed to support the IPv6 traffic class, flow label, and hop limit header fields. New socket options are needed to control the sending and receiving of IPv6 multicast packets.

The socket interface will be enhanced in the future to provide access to other IPv6 features. These extensions are described in [4].

2.2 Data Types

The data types of the structure elements given in this memo are intended to be examples, not absolute requirements. Whenever possible, data types from Draft 6.6 (March 1997) of POSIX 1003.1g are used: uintN_t means an unsigned integer of exactly N bits (e.g., uint16_t). We also assume the argument data types from 1003.1g when possible (e.g., the final argument to setsockopt() is a size_t value). Whenever buffer sizes are specified, the POSIX 1003.1 size_t data type is used (e.g., the two length arguments to getnameinfo()).

2.3 Headers

When function prototypes and structures are shown we show the headers that must be #included to cause that item to be defined.

2.4
Structures

When structures are described the members shown are the ones that must appear in an implementation. Additional, nonstandard members may also be defined by an implementation. As an additional precaution nonstandard members could be verified by Feature Test Macros as described in IEEE Std 1003.1. (Such Feature Test Macros are not defined by this RFC.)

The ordering shown for the members of a structure is the recommended ordering, given alignment considerations of multibyte members, but an implementation may order the members differently.

3. Socket Interface

This section specifies the socket interface changes for IPv6.

3.1 IPv6 Address Family and Protocol Family

A new address family name, AF_INET6, is defined in <sys/socket.h>. The AF_INET6 definition distinguishes between the original sockaddr_in address data structure, and the new sockaddr_in6 data structure.

A new protocol family name, PF_INET6, is defined in <sys/socket.h>. Like most of the other protocol family names, this will usually be defined to have the same value as the corresponding address family name:

```
#define PF_INET6        AF_INET6
```

The PF_INET6 is used in the first argument to the socket() function to indicate that an IPv6 socket is being created.

3.2 IPv6 Address Structure

A new in6_addr structure holds a single IPv6 address and is defined as a result of including <netinet/in.h>:

```
struct in6_addr {
    uint8_t  s6_addr[16];      /* IPv6 address */
};
```

This data structure contains an array of sixteen 8-bit elements, which make up one 128-bit IPv6 address. The IPv6 address is stored in network byte order.

The structure in6_addr above is usually implemented with an embedded union with extra fields that force the desired alignment level in a

manner similar to BSD implementations of "struct in_addr". Those additional
implementation details are omitted here for simplicity.

An example is as follows:

```
struct in6_addr {
   union {
      uint8_t  _S6_u8[16];
      uint32_t _S6_u32[4];
      uint64_t _S6_u64[2];
   } _S6_un;
};
#define s6_addr _S6_un._S6_u8
```

3.3 Socket Address Structure for 4.3BSD-Based Systems

In the socket interface, a different protocol-specific data structure is defined to carry the addresses for each protocol suite. Each protocol-specific data structure is designed so it can be cast into a protocol-independent data structure -- the "sockaddr" structure. Each has a "family" field that overlays the "sa_family" of the sockaddr data structure. This field identifies the type of the data structure.

The sockaddr_in structure is the protocol-specific address data structure for IPv4. It is used to pass addresses between applications and the system in the socket functions. The following sockaddr_in6 structure holds IPv6 addresses and is defined as a result of including
the <netinet/in.h> header:

```
 struct sockaddr_in6 {
    sa_family_t     sin6_family;    /* AF_INET6 */
    in_port_t       sin6_port;      /* transport layer port # */
    uint32_t        sin6_flowinfo;  /* IPv6 traffic class & flow info */
    struct in6_addr sin6_addr;      /* IPv6 address */
    uint32_t        sin6_scope_id;  /* set of interfaces for a scope */
 };
```

This structure is designed to be compatible with the sockaddr data structure used in the 4.3BSD release.

The sin6_family field identifies this as a sockaddr_in6 structure. This

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field overlays the sa_family field when the buffer is cast to a sockaddr data structure. The value of this field must be AF_INET6.

The sin6_port field contains the 16-bit UDP or TCP port number. This field is used in the same way as the sin_port field of the sockaddr_in structure.
The port number is stored in network byte order.

The sin6_flowinfo field is a 32-bit field that contains two pieces of information: the traffic class and the flow label. The contents and interpretation of this member is specified in [1]. The sin6_flowinfo field SHOULD be set to zero by an implementation prior to using the sockaddr_in6 structure by an application on receive operations.

The sin6_addr field is a single in6_addr structure (defined in the previous section). This field holds one 128-bit IPv6 address. The address is stored in network byte order.

The ordering of elements in this structure is specifically designed so that when sin6_addr field is aligned on a 64-bit boundary, the start of the structure will also be aligned on a 64-bit boundary. This is done for optimum performance on 64-bit architectures.

The sin6_scope_id field is a 32-bit integer that identifies a set of interfaces as appropriate for the scope of the address carried in the sin6_addr
field. For a link scope sin6_addr sin6_scope_id would be an interface index. For a site scope sin6_addr, sin6_scope_id would be a site identifier. The mapping of sin6_scope_id to an interface or set of interfaces is left to implementation and future specifications on the subject of site identifiers.

Notice that the sockaddr_in6 structure will normally be larger than the generic sockaddr structure. On many existing implementations the sizeof(struct sockaddr_in) equals sizeof(struct sockaddr), with both being 16 bytes. Any existing code that makes this assumption needs to be examined carefully when converting to IPv6.

3.4 Socket Address Structure for 4.4BSD-Based Systems

The 4.4BSD release includes a small, but incompatible change to the

socket interface. The "sa_family" field of the sockaddr data structure was changed from a 16-bit value to an 8-bit value, and the space saved used to hold a length field, named "sa_len". The sockaddr_in6 data structure given in the previous
section cannot be correctly cast into
the newer sockaddr data structure. For this reason, the following alternative IPv6 address data structure is provided to be used on systems based on 4.4BSD. It is defined as a result of including the <netinet/in.h> header.

```
struct sockaddr_in6 {
    uint8_t        sin6_len;      /* length of this struct */
    sa_family_t    sin6_family;   /* AF_INET6 */
    in_port_t      sin6_port;     /* transport layer port # */
    uint32_t       sin6_flowinfo; /* IPv6 flow information */
    struct in6_addr sin6_addr;    /* IPv6 address */
    uint32_t       sin6_scope_id; /* set of interfaces for a scope */
};
```


The only differences between this data structure and the 4.3BSD variant are the inclusion of the length field, and the change of the family field to a 8-bit data type.
The definitions of all the other fields are
identical to the structure defined in the previous section.

Systems that provide this version of the sockaddr_in6 data structure must also declare SIN6_LEN as a result of including the <netinet/in.h> header. This macro allows applications to determine whether they are being built on a system that supports the 4.3BSD or 4.4BSD variants of the data structure.

3.5 The Socket Functions

Applications call the socket() function to create a socket descriptor that represents a communication endpoint. The arguments to the socket() function tell the system which protocol to use, and what format address structure will be used in subsequent functions. For example, to create an IPv4/TCP socket, applications make the call:

```
  s = socket(PF_INET, SOCK_STREAM, 0);
```

To create an IPv4/UDP socket, applications make the call:

```
  s = socket(PF_INET, SOCK_DGRAM, 0);
```

Applications may create IPv6/TCP and IPv6/UDP sockets by simply using the constant PF_INET6 instead of PF_INET in the first argument. For example, to create an IPv6/TCP socket, applications make the call:

```
  s = socket(PF_INET6, SOCK_STREAM, 0);
```

To create an IPv6/UDP socket, applications make the call:

```
  s = socket(PF_INET6, SOCK_DGRAM, 0);
```

Once the application has created a PF_INET6 socket, it must use the sockaddr_in6 address structure when passing addresses in to the system. The functions that the application uses to pass addresses into the system are:

- bind()
- connect()
- sendmsg()
- sendto()

The system will use the sockaddr_in6 address structure to return addresses to applications that are using PF_INET6 sockets. The functions that return an address from the system to an application are:

- accept()
- recvfrom()
- recvmsg()
- getpeername()
- getsockname()

No changes to the syntax of the socket functions are needed to support

IPv6, since all of the "address carrying" functions use an opaque

address pointer, and carry an address length as a function argument.

3.6 Compatibility with IPv4 Applications

In order to support the large base of applications using the original API, system implementations must provide complete source and binary compatibility with the original API. This means that systems must continue to support PF_INET sockets and the sockaddr_in address structure. Applications must be able to create IPv4/TCP and IPv4/UDP sockets using the PF_INET constant in the socket() function, as described in the previous section. Applications should be able to hold a combination of IPv4/TCP, IPv4/UDP, IPv6/TCP and IPv6/UDP sockets simultaneously within the same process.

Applications using the original API should continue to operate as they did on systems supporting only IPv4. That is, they should continue to interoperate with IPv4 nodes.

3.7 Compatibility with IPv4 Nodes

The
API also provides a different type of compatibility: the ability for IPv6 applications to interoperate with IPv4 applications. This feature uses the IPv4-mapped IPv6 address format defined in the IPv6 addressing architecture specification [2]. This address format allows the IPv4 address of an IPv4 node to be represented as an IPv6 address. The IPv4 address is encoded into the low-order 32 bits of the IPv6 address, and the high-order 96 bits hold the fixed prefix 0:0:0:0:0:FFFF. IPv4-mapped addresses are written as follows:

::FFFF:<IPv4-address>

These addresses can be generated automatically by the getipnodebyname() function when the specified host has only IPv4 addresses (as described in Section 6.1).

Applications may use PF_INET6 sockets to open TCP connections to IPv4 nodes, or send UDP packets to IPv4 nodes, by simply encoding the destination's IPv4 address as an IPv4-mapped IPv6 address, and passing that address, within a sockaddr_in6 structure, in the connect()
or
sendto() call. When applications use PF_INET6 sockets to accept TCP connections from IPv4 nodes, or receive UDP packets from IPv4 nodes, the system returns the peer's address to the application in the accept(),

recvfrom(), or getpeername() call using a sockaddr_in6 structure encoded this way.

Few applications will likely need to know which type of node they are interoperating with. However, for those applications that do need to know, the IN6_IS_ADDR_V4MAPPED() macro, defined in Section 6.7, is provided.

3.8 IPv6 Wildcard Address

While the bind() function allows applications to select the source IP address of UDP packets and TCP connections, applications often want the system to select the source address for them. With IPv4, one specifies the address as the symbolic constant INADDR_ANY (called the "wildcard" address) in the
bind() call, or simply omits the bind() entirely.

Since the IPv6 address type is a structure (struct in6_addr), a symbolic constant can be used to initialize an IPv6 address variable, but cannot be used in an assignment. Therefore systems provide the IPv6 wildcard address in two forms.

The first version is a global variable named "in6addr_any" that is an in6_addr structure. The extern declaration for this variable is defined in <netinet/in.h>:

```
extern const struct in6_addr in6addr_any;
```

Applications use in6addr_any similarly to the way they use INADDR_ANY in IPv4. For example, to bind a socket to port number 23, but let the system select the source address, an application could use the following code:

```
struct sockaddr_in6 sin6;
. . .
sin6.sin6_family = AF_INET6;
sin6.sin6_flowinfo = 0;
```

```
 sin6.sin6_port = htons(23);
 sin6.sin6_addr = in6addr_any;  /* structure assignment */
  . . .
 if (bind(s, (struct sockaddr *) &sin6, sizeof(sin6)) == -1)
        . .
.
```

The other version is a symbolic constant named IN6ADDR_ANY_INIT and is defined in <netinet/in.h>. This constant can be used to initialize an in6_addr structure:

```
 struct in6_addr anyaddr = IN6ADDR_ANY_INIT;
```

Note that this constant can be used ONLY at declaration time. It can not be used to assign a previously declared in6_addr structure. For example, the following code will not work:

```
 /* This is the WRONG way to assign an unspecified address */
 struct sockaddr_in6 sin6;
  . . .
 sin6.sin6_addr = IN6ADDR_ANY_INIT; /* will NOT compile */
```

Be aware that the IPv4 INADDR_xxx constants are all defined in host byte order but the IPv6 IN6ADDR_xxx constants and the IPv6 in6addr_xxx externals are defined in network byte order.

3.9 IPv6 Loopback Address

Applications may need to send UDP packets to, or originate TCP connections
to, services residing on the local node. In IPv4, they can do this by using the constant IPv4 address INADDR_LOOPBACK in their connect(), sendto(), or sendmsg() call.

IPv6 also provides a loopback address to contact local TCP and UDP

services. Like the unspecified address, the IPv6 loopback address is
provided in two forms -- a global variable and a symbolic constant.

The global variable is an in6_addr structure named "in6addr_loopback."
The extern declaration for this variable is defined in <netinet/in.h>:

```
 extern const struct in6_addr in6addr_loopback;
```

Applications use in6addr_loopback as they would use INADDR_LOOPBACK in
IPv4 applications (but beware of the byte ordering difference mentioned
at the end of the previous section). For example, to open a TCP
connection to the local telnet server, an application could use the
following code:

```
 struct sockaddr_in6 sin6;
  . . .
 sin6.sin6_family = AF_INET6;
 sin6.sin6_flowinfo = 0;
 sin6.sin6_port = htons(23);

sin6.sin6_addr = in6addr_loopback;  /* structure assignment */
  . . .
 if (connect(s, (struct sockaddr *) &sin6, sizeof(sin6)) == -1)
        . . .
```

The symbolic constant is named IN6ADDR_LOOPBACK_INIT and is defined in
<netinet/in.h>. It can be used at declaration time ONLY; for example:

```
 struct in6_addr loopbackaddr = IN6ADDR_LOOPBACK_INIT;
```

Like IN6ADDR_ANY_INIT, this constant cannot be used in an assignment to
a previously declared IPv6 address variable.

3.10 Portability Additions

One simple addition to the sockets API that can help application writers
is the "struct sockaddr_storage". This data structure can simplify
writing code portable across multiple address families and platforms.
This data structure is designed with the following goals.

- It has a large enough implementation specific maximum size to store
  the desired set of protocol specific socket address data structures.
  Specifically, it is at least large enough to accommodate sockaddr_in

and sockaddr_in6 and possibly other protocol specific socket
  addresses too.

- It is aligned at an appropriate boundary so protocol specific socket
  address data structure pointers can be cast to it and access their
  fields without alignment problems. (e.g. pointers to sockaddr_in6
  and/or sockaddr_in can be cast to it and access fields without alignment

  problems).
- It has the initial field(s) isomorphic to the fields of the
  "struct sockaddr" data structure on that implementation which
  can be used as a discriminants for deriving the protocol in use.
  These initial field(s) would on most implementations either be a
  single field of type "sa_family_t" (isomorphic to sa_family field,
  16 bits) or two fields of type uint8_t and sa_family_t respectively,
  (isomorphic to sa_len and sa_family_t,
8 bits each).

An example implementation design of such a data structure would be as
follows.

```
/*
* Desired design of maximum size and alignment
*/
#define _SS_MAXSIZE    128  /* Implementation specific max size */
#define _SS_ALIGNSIZE  (sizeof (int64_t))
                    /* Implementation specific desired alignment */
/*
* Definitions used for sockaddr_storage structure paddings design.
*/
#define _SS_PAD1SIZE   (_SS_ALIGNSIZE - sizeof (sa_family_t))
#define _SS_PAD2SIZE   (_SS_MAXSIZE - (sizeof (sa_family_t)+
                        _SS_PAD1SIZE + _SS_ALIGNSIZE))
struct sockaddr_storage {
  sa_family_t  __ss_family;     /* address family */
  /* Following fields are implementation specific */
  char      __ss_pad1[_SS_PAD1SIZE];
          /* 6 byte pad, this is to make implementation
          /* specific pad up to alignment field that */
          /* follows explicit in the data structure */
  int64_t   __ss_align;     /* field to force
 desired structure */
           /* storage alignment */
  char      __ss_pad2[_SS_PAD2SIZE];
```

```
        /* 112 byte pad to achieve desired size, */
        /* _SS_MAXSIZE value minus size of ss_family */
        /* __ss_pad1, __ss_align fields is 112 */
};
```

On implementations where sockaddr data structure includes a "sa_len", field this data structure would look like this:

```
/*
* Definitions used for sockaddr_storage structure paddings design.
*/
#define _SS_PAD1SIZE (_SS_ALIGNSIZE -
                    (sizeof (uint8_t) + sizeof (sa_family_t))
#define _SS_PAD2SIZE (_SS_MAXSIZE - (sizeof (sa_family_t)+
                      _SS_PAD1SIZE + _SS_ALIGNSIZE))
struct sockaddr_storage {
  uint8_t      __ss_len;       /* address length */
  sa_family_t  __ss_family;    /* address family */
  /* Following fields are implementation specific */
  char         __ss_pad1[_SS_PAD1SIZE];
            /* 6 byte pad, this is to make implementation
             /* specific pad up to alignment field that */
            /* follows explicit in the data structure */
  int64_t      __ss_align;  /* field to force desired structure */
```



```
            /* storage alignment */
  char         __ss_pad2[_SS_PAD2SIZE];
            /* 112 byte pad to achieve desired size, */
            /* _SS_MAXSIZE value minus size of ss_len, */
            /* __ss_family, __ss_pad1, __ss_align fields is 112 */
};
```

The above example implementation illustrates a data structure which will align on a 64 bit boundary. An implementation specific field "__ss_align" along "__ss_pad1" is used to force a 64-bit alignment which covers proper alignment good enough for needs of sockaddr_in6 (IPv6), sockaddr_in (IPv4) address data structures. The size of padding fields __ss_pad1 depends
on the chosen alignment boundary. The size of padding field __ss_pad2 depends on the value of overall size chosen for the total size of the structure. This size and alignment are represented in

the above example by implementation specific (not required) constants _SS_MAXSIZE (chosen value 128) and _SS_ALIGNMENT (with chosen value 8). Constants _SS_PAD1SIZE (derived value 6) and _SS_PAD2SIZE (derived value 112) are also for illustration and not required. The implementation specific definitions and structure field names above start with an underscore to denote implementation private namespace. Portable code is not expected to access or reference those fields or constants.

The sockaddr_storage structure solves the problem of declaring storage for automatic variables which is large enough and aligned enough for storing socket address data structure of any family. For example, code with a file descriptor and without the context of the address family can pass a pointer to a variable of
this type where a pointer to a socket
address structure is expected in calls such as getpeername() and determine the address family by accessing the received content after the call.

The sockaddr_storage structure may also be useful and applied to certain other interfaces where a generic socket address large enough and aligned for use with multiple address families may be needed. A discussion of those interfaces is outside the scope of this document.

Also, much existing code assumes that any socket address structure can fit in a generic sockaddr structure. While this has been true for IPv4 socket address structures, it has always been false for Unix domain socket address structures (but in practice this has not been a problem) and it is also false for IPv6 socket address structures (which can be a problem).

So now an application can do the following:

```
struct sockaddr_storage __ss;
struct sockaddr_in6 *sin6;
sin6 = (struct sockaddr_in6 *) &__ss;
```

4. Interface Identification

This
API uses an interface index (a small positive integer) to identify the local interface on which a multicast group is joined (Section 5.3). Additionally, the advanced API [4] uses these same interface indexes to identify the interface on which a datagram is received, or to specify

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the interface on which a datagram is to be sent.

Interfaces are normally known by names such as "le0", "sl1", "ppp2", and the like. On Berkeley-derived implementations, when an interface is made known to the system, the kernel assigns a unique positive integer value (called the interface index) to that interface. These are small positive integers that start at 1. (Note that 0 is never used for an interface index.) There may be gaps so that there is no current interface for a particular positive interface index.

This API defines two functions that
map between an interface name and
index, a third function that returns all the interface names and indexes, and a fourth function to return the dynamic memory allocated by the previous function. How these functions are implemented is left up to the implementation. 4.4BSD implementations can implement these functions using the existing sysctl() function with the NET_RT_IFLIST command. Other implementations may wish to use ioctl() for this purpose.

4.1 Name-to-Index

The first function maps an interface name into its corresponding index.

```
#include <net/if.h>

unsigned int  if_nametoindex(const char *ifname);
```

If the specified interface name does not exist, the return value is 0, and errno is set to ENXIO. If there was a system error (such as running out of memory), the return value is 0 and errno is set to the proper value (e.g., ENOMEM).

4.2 Index-to-Name

The second function maps an interface index into its corresponding name.

```
#include <net/if.h>
```

```
 char  *if_indextoname(unsigned
int ifindex, char *ifname);
```

The ifname argument must point to a buffer of at least IF_NAMESIZE bytes into which the interface name corresponding to the specified index is returned. (IF_NAMESIZE is also defined in <net/if.h> and its value includes a terminating null byte at the end of the interface name.) This pointer is also the return value of the function. If there is no interface corresponding to the specified index, NULL is returned, and errno is set to ENXIO, if there was a system error (such as running out of memory), if_indextoname returns NULL and errno would be set to the proper value (e.g., ENOMEM).

4.3 Return All Interface Names and Indexes

The if_nameindex structure holds the information about a single interface and is defined as a result of including the <net/if.h> header.

```
struct if_nameindex {
   unsigned int   if_index;  /* 1, 2, ... */
  char         *if_name;   /* null terminated name: "le0", ... */
};
```

The final function returns an array of if_nameindex structures, one structure per interface.

```
 struct if_nameindex  *if_nameindex(void);
```

The end of the array of structures is indicated by a structure with an if_index of 0 and an if_name of NULL. The function returns a NULL pointer upon an error, and would set errno to the appropriate value.

The memory used for this array of structures along with the interface names pointed to by the if_name members is obtained dynamically. This memory is freed by the next function.

4.4 Free Memory

The following function frees the dynamic memory that was allocated by if_nameindex().

```
#include <net/if.h>

void  if_freenameindex(struct if_nameindex *ptr);
```

The argument to this function must be a pointer that was returned by if_nameindex().

Currently net/if.h doesn't have prototype definitions for functions and it is
recommended that these definitions be defined in net/if.h as well and the struct if_nameindex{}.

5. Socket Options

A number of new socket options are defined for IPv6. All of these new options are at the IPPROTO_IPV6 level. That is, the "level" parameter in the getsockopt() and setsockopt() calls is IPPROTO_IPV6 when using these options. The constant name prefix IPV6_ is used in all of the new socket options. This serves to clearly identify these options as applying to IPv6.

The declaration for IPPROTO_IPV6, the new IPv6 socket options, and related constants defined in this section are obtained by including the header <netinet/in.h>.

5.1 Unicast Hop Limit

A new setsockopt() option controls the hop limit used in outgoing unicast IPv6 packets. The name of this option is IPV6_UNICAST_HOPS, and

it is used at the IPPROTO_IPV6
layer. The following example illustrates
how it is used:

```
int  hoplimit = 10;

if (setsockopt(s, IPPROTO_IPV6, IPV6_UNICAST_HOPS,
            (char *) &hoplimit, sizeof(hoplimit)) == -1)
    perror("setsockopt IPV6_UNICAST_HOPS");
```

When the IPV6_UNICAST_HOPS option is set with setsockopt(), the option value given is used as the hop limit for all subsequent unicast packets sent via that socket. If the option is not set, the system selects a default value. The integer hop limit value (called x) is interpreted as follows:

```
x < -1:        return an error of EINVAL
x == -1:       use kernel default
0 <= x <= 255: use x
x >= 256:      return an error of EINVAL
```

The IPV6_UNICAST_HOPS option may be used with getsockopt() to determine the hop limit value that the system will use for subsequent unicast packets sent via that socket. For example:

```
int  hoplimit;
size_t  len = sizeof(hoplimit);

if (getsockopt(s, IPPROTO_IPV6, IPV6_UNICAST_HOPS,

    (char *) &hoplimit, &len) == -1)
    perror("getsockopt IPV6_UNICAST_HOPS");
else
    printf("Using %d for hop limit.\n", hoplimit);
```

5.2 Sending and Receiving Multicast Packets

IPv6 applications may send UDP multicast packets by simply specifying an IPv6 multicast address in the address argument of the sendto() function.

Three socket options at the IPPROTO_IPV6 layer control some of the parameters for sending multicast packets. Setting these options is not required: applications may send multicast packets without using these options. The setsockopt() options for controlling the sending of multicast packets are summarized below. These three options can also be used with getsockopt().

IPV6_MULTICAST_IF

Set the interface to use for outgoing multicast packets.
The argument is the index of the interface to use.

Argument type: unsigned int

IPV6_MULTICAST_HOPS

Set the hop limit to use for outgoing multicast packets.
(Note a separate option - IPV6_UNICAST_HOPS - is
provided to set the hop limit to use for outgoing
unicast packets.)

The interpretation of the argument is the same
as for the IPV6_UNICAST_HOPS option:

x < -1: return an error of EINVAL
x == -1: use kernel default
0 <= x <= 255: use x
x >= 256: return an error of EINVAL

If IPV6_MULTICAST_HOPS is not set, the default is 1
(same as IPv4 today)

Argument type: int

IPV6_MULTICAST_LOOP

If a multicast datagram is sent to a group to which the sending host
itself belongs (on the outgoing interface), a copy of the datagram is
looped back by the IP layer for local delivery if this option is set to
1. If this option is set to 0 a copy is not looped back. Other option
values
return an error of EINVAL.

If IPV6_MULTICAST_LOOP is not set, the default is 1 (loopback; same as
IPv4 today).

Argument type: unsigned int

The reception of multicast packets is controlled by the two setsockopt() options summarized below. An error of EOPNOTSUPP is returned if these two options are used with getsockopt().

IPV6_JOIN_GROUP

Join a multicast group on a specified local interface.
If the interface index is specified as 0,
the kernel chooses the local interface.
For example, some kernels look up the multicast group
in the normal IPv6 routing table and using the resulting interface.

Argument type: struct ipv6_mreq

IPV6_LEAVE_GROUP

Leave a multicast group on a specified interface.

Argument type: struct ipv6_mreq

The argument type of both of these options is the ipv6_mreq structure, defined as a result of including the <netinet/in.h> header;

```
struct ipv6_mreq {
    struct in6_addr ipv6mr_multiaddr;
/* IPv6 multicast addr */
```



```
    unsigned int    ipv6mr_interface; /* interface index */
};
```

Note that to receive multicast datagrams a process must join the multicast group and bind the UDP port to which datagrams will be sent. Some processes also bind the multicast group address to the socket, in addition to the port, to prevent other datagrams destined to that same port from being delivered to the socket.

6. Library Functions

New library functions are needed to perform a variety of operations with IPv6 addresses. Functions are needed to lookup IPv6 addresses in the Domain Name System (DNS). Both forward lookup (nodename-to-address translation) and reverse lookup (address-to-nodename translation) need to be supported. Functions are also needed to convert IPv6 addresses between their binary and textual form.

We note that
the two existing functions, gethostbyname() and gethostbyaddr(), are left as-is. New functions are defined to handle both IPv4 and IPv6 addresses.

6.1 Nodename-to-Address Translation

The commonly used function gethostbyname() is inadequate for many applications, first because it provides no way for the caller to specify anything about the types of addresses desired (IPv4 only, IPv6 only, IPv4-mapped IPv6 are OK, etc.), and second because many implementations of this function are not thread safe. RFC 2133 defined a function named gethostbyname2() but this function was also inadequate, first because its use required setting a global option (RES_USE_INET6) when IPv6 addresses were required, and second because a flag argument is needed to provide the caller with additional control over the types of addresses required.

The following function is new and must be thread safe:

```
#include <sys/socket.h>
#include <netdb.h>

struct hostent *getipnodebyname(const char *name, int
af, int flags
                        int *error_num);
```

The name argument can be either a node name or a numeric address string (i.e., a dotted-decimal IPv4 address or an IPv6 hex address). The af argument specifies the address family, either AF_INET or AF_INET6. The error_num value is returned to the caller, via a pointer, with the appropriate error code in error_num, to support thread safe error code returns. error_num will be set to one of the following values:

HOST_NOT_FOUND

No such host is known.

NO_ADDRESS

The server recognised the request and the name but no address is available. Another type of request to the name server for the domain might return an answer.

NO_RECOVERY

An unexpected server failure occurred which cannot be recovered.

TRY_AGAIN

A temporary and possibly transient error occurred, such as a failure of a server to respond.

The flags argument specifies the types of addresses that are searched for, and the types of addresses that are returned. We note that a special flags value of AI_DEFAULT (defined below) should handle most applications.

That is, porting simple applications to use IPv6 replaces the call

```
hptr = gethostbyname(name);
```

with

```
hptr = getipnodebyname(name, AF_INET6, AI_DEFAULT, &error_num);
```

and changes any subsequent error diagnosis code to use error_num instead of externally declared variables, such as h_errno.

Applications desiring finer control over the types of addresses searched for and returned, can specify other combinations of the flags argument.

A flags of 0 implies a strict interpretation of the af argument:

- If flags is 0 and af is AF_INET, then the caller wants only IPv4

addresses. A query is made for A records. If successful, the IPv4 addresses are returned and the h_length
member of the hostent
structure will be 4, else the function returns a NULL pointer.

- If flags is 0 and if af is AF_INET6, then the caller wants only IPv6 addresses. A query is made for AAAA records. If successful, the IPv6 addresses are returned and the h_length member of the hostent structure will be 16, else the function returns a NULL pointer.

Other constants can be logically-ORed into the flags argument, to modify the behavior of the function.

- If the AI_V4MAPPED flag is specified along with an af of AF_INET6, then the caller will accept IPv4-mapped IPv6 addresses. That is, if no AAAA records are found then a query is made for A records and any found are returned as IPv4-mapped IPv6 addresses (h_length will be 16). The AI_V4MAPPED flag is ignored unless af equals AF_INET6.

- The AI_ALL flag is used in conjunction with the AI_V4MAPPED flag, and is only used with the IPv6 address family. When AI_ALL is logically or'd with AI_V4MAPPED flag then the caller wants all addresses: IPv6 and IPv4-mapped IPv6. A query is first made for AAAA records and if successful, the IPv6 addresses are returned. Another query is then made for A records and any found are returned as IPv4-mapped IPv6 addresses. h_length will be 16. Only if both queries fail does the function return a NULL pointer. This flag is ignored unless af equals AF_INET6.

- The AI_ADDRCONFIG flag specifies that a query for AAAA records should occur only if the node has at least one IPv6 source address configured and a query for A records should occur only if the node has at least one IPv4 source address configured.

  For example, if the node has no IPv6 source addresses configured, and af equals

AF_INET6, and the node name being looked up has both
AAAA and A records, then:

(a) if only AI_ADDRCONFIG is specified, the function returns a
NULL pointer;
(b) if AI_ADDRCONFIG | AI_V4MAPPED is specified, the A records
are returned as IPv4-mapped IPv6 addresses;

The special flags value of AI_DEFAULT is defined as

```
#define  AI_DEFAULT  (AI_V4MAPPED | AI_ADDRCONFIG)
```

We noted that the getipnodebyname() function must allow the name argument to be either a node name or a literal address string (i.e., a dotted-decimal IPv4 address or an IPv6 hex address). This saves applications from having to call inet_pton() to handle literal address strings.

There are four scenarios based on the type of literal address string and the value of the af argument.

The two simple cases are:

When name is a dotted-decimal IPv4 address and af equals AF_INET, or when name is an IPv6 hex address and af equals AF_INET6. The members of the returned hostent
structure are: h_name points to a copy of the name argument, h_aliases is a NULL pointer, h_addrtype is a copy of the af argument, h_length is either 4 (for AF_INET) or 16 (for AF_INET6), h_addr_list[0] is a pointer to the 4-byte or 16-byte binary address, and h_addr_list[1] is a NULL pointer.

When name is a dotted-decimal IPv4 address and af equals AF_INET6, and flags equals AI_V4MAPPED, an IPv4-mapped IPv6 address is returned: h_name points to an IPv6 hex address containing the IPv4-mapped IPv6 address, h_aliases is a NULL pointer, h_addrtype is AF_INET6, h_length is 16, h_addr_list[0] is a pointer to the 16-byte binary address, and h_addr_list[1] is a NULL pointer. If AI_V4MAPPED is set (with or without AI_ALL) return IPv4-mapped otherwise return NULL.

It is an error when name is an IPv6 hex address and af equals AF_INET. The function's return value is a NULL pointer and error_num equals HOST_NOT_FOUND.

6.2 Address-To-Nodename Translation

The following function has the same arguments as the existing gethostbyaddr() function, but adds an error number.

```
#include <sys/socket.h>
#include <netdb.h>

struct hostent *getipnodebyaddr(const void *src, size_t len, int af,
                                int *error_num);
```

As with getipnodebyname(), getipnodebyaddr() must be thread safe. The error_num value is returned to the caller with the appropriate error code, to support thread safe error code returns. The following error conditions may be returned for error_num:

HOST_NOT_FOUND

No such host is known.

NO_ADDRESS

The server recognized the request and the name but no address is available. Another type of request to the name server for the domain might return an answer.

NO_RECOVERY

An unexpected server failure occurred which cannot be recovered.

TRY_AGAIN

A temporary and possibly transient error occurred, such as a failure of a server to respond.

One possible source of confusion is the handling of IPv4-mapped IPv6 addresses and IPv4-compatible IPv6 addresses, but the following logic should apply.

1. If af is AF_INET6, and if len equals 16, and if the IPv6 address is an IPv4-mapped IPv6 address or an IPv4-compatible IPv6 address, then skip over the first 12 bytes of the IPv6 address, set af to AF_INET, and set len to 4.

2. If af is AF_INET, lookup the name for the given IPv4 address
   (e.g., query for a PTR record in the in-addr.arpa domain).

3. If af is AF_INET6, lookup the name for the given IPv6 address
   (e.g., query for a PTR record in the ip6.int domain).

4. If the function is returning success, then the single address that
   is returned in the hostent structure is a copy of the first argument
   to the function with the same address family that was passed as

   an argument to this function.

All four steps listed are performed, in order. Also note that the IPv6
hex addresses "::" and "::1" MUST NOT be treated as IPv4-compatible

addresses, and if the address is "::", HOST_NOT_FOUND MUST be returned
and a query of the address not performed.

Also for the macro in section 6.7 IN6_IS_ADDR_V4COMPAT MUST return false
for "::" and "::1".

6.3 Freeing memory for getipnodebyname and getipnodebyaddr

The hostent structure does not change from its existing definition.
This structure, and the information pointed to by this structure, are
dynamically allocated by getipnodebyname and getipnodebyaddr. The
following function frees this memory:

```
#include <netdb.h>

void freehostent(struct hostent *ptr);
```

6.4 Protocol-Independent Nodename and Service Name Translation

Nodename-to-address translation

is done in a protocol-independent
fashion using the getaddrinfo() function that is taken from the
Institute of Electrical and Electronic Engineers (IEEE) POSIX 1003.1g
(Protocol Independent Interfaces) draft specification [3].

The official specification for this function will be the final POSIX
standard, with the following additional requirements:

- getaddrinfo() (along with the getnameinfo() function described in
  the next section) must be thread safe.

- The AI_NUMERICHOST is new with this document.

- All fields in socket address structures returned by getaddrinfo()
  that are not filled in through an explicit argument (e.g.,
  sin6_flowinfo and sin_zero) must be set to 0. (This makes it easier
  to compare socket address structures.)

- getaddrinfo() must fill in the length field of a socket address structure
  (e.g., sin6_len) on systems that support this field.

We are providing this independent description of the function because
POSIX
standards are not freely available (as are IETF documents).

```
#include <sys/socket.h>
#include <netdb.h>

int getaddrinfo(const char *nodename, const char *servname,
                const struct addrinfo *hints,
                struct addrinfo **res);
```

The addrinfo structure is defined as a result of including the <netdb.h>
header.

```
struct addrinfo {
```



```
  int     ai_flags;     /* AI_PASSIVE, AI_CANONNAME, AI_NUMERICHOST */
  int     ai_family;    /* PF_xxx */
  int     ai_socktype;  /* SOCK_xxx */
  int     ai_protocol;  /* 0 or IPPROTO_xxx for IPv4 and IPv6 */
```

```
  size_t  ai_addrlen;   /* length of ai_addr */
  char   *ai_canonname; /* canonical name for nodename */
  struct sockaddr  *ai_addr; /* binary address */
  struct addrinfo  *ai_next; /* next structure in linked list */
};
```

The return
value from the function is 0 upon success or a nonzero error
code. The following names are the nonzero error codes from
getaddrinfo(), and are defined in <netdb.h>:

```
EAI_ADDRFAMILY  address family for nodename not supported
EAI_AGAIN       temporary failure in name resolution
EAI_BADFLAGS    invalid value for ai_flags
EAI_FAIL        non-recoverable failure in name resolution
EAI_FAMILY      ai_family not supported
EAI_MEMORY      memory allocation failure
EAI_NODATA      no address associated with nodename
EAI_NONAME      nodename nor servname provided, or not known
EAI_SERVICE     servname not supported for ai_socktype
EAI_SOCKTYPE    ai_socktype not supported
EAI_SYSTEM      system error returned in errno
```

The nodename and servname arguments are pointers to null-terminated
strings or NULL. One or both of these two arguments must be a non-NULL
pointer. In the normal client scenario, both the nodename and servname
are specified. In the normal server
scenario, only the servname is
specified. A non-NULL nodename string can be either a node name or a
numeric host address string (i.e., a dotted-decimal IPv4 address or an
IPv6 hex address). A non-NULL servname string can be either a service
name or a decimal port number.

The caller can optionally pass an addrinfo structure, pointed to by the
third argument, to provide hints concerning the type of socket that the
caller supports. In this hints structure all members other than
ai_flags, ai_family, ai_socktype, and ai_protocol must be zero or a NULL
pointer. A value of PF_UNSPEC for ai_family means the caller will
accept any protocol family. A value of 0 for ai_socktype means the
caller will accept any socket type. A value of 0 for ai_protocol means
the caller will accept any protocol. For example, if the caller handles
only TCP and not UDP, then the ai_socktype member of the hints structure
should be set to SOCK_STREAM when getaddrinfo() is called. If the
caller handles only
IPv4 and not IPv6, then the ai_family member of the
hints structure should be set to PF_INET when getaddrinfo() is called.
If the third argument to getaddrinfo() is a NULL pointer, this is the
same as if the caller had filled in an addrinfo structure initialized to

zero with ai_family set to PF_UNSPEC.

Upon successful return a pointer to a linked list of one or more addrinfo structures is returned through the final argument. The caller can process each addrinfo structure in this list by following the ai_next pointer, until a NULL pointer is encountered. In each returned addrinfo structure the three members ai_family, ai_socktype, and ai_protocol are the corresponding arguments for a call to the socket() function. In each addrinfo structure the ai_addr member points to a

filled-in socket address structure whose length is specified by the
ai_addrlen member.

If the AI_PASSIVE bit is set in the ai_flags member of the hints structure, then the caller plans to use the returned socket address structure in a call to bind(). In this case, if the nodename argument is a NULL pointer, then the IP address portion of the socket address structure will be set to INADDR_ANY for an IPv4 address or IN6ADDR_ANY_INIT for an IPv6 address.

If the AI_PASSIVE bit is not set in the ai_flags member of the hints structure, then the returned socket address structure will be ready for a call to connect() (for a connection-oriented protocol) or either connect(), sendto(), or sendmsg() (for a connectionless protocol). In this case, if the nodename argument is a NULL pointer, then the IP address portion of the socket address structure will be set to the loopback address.

If the AI_CANONNAME bit is set in the ai_flags member of the hints structure, then upon successful return the ai_canonname member of the first addrinfo structure in the linked list will point to a null-terminated string containing the canonical name of the specified nodename.

If the AI_NUMERICHOST bit is set in the ai_flags member of the hints structure, then a non-NULL nodename string must be a numeric host address string. Otherwise an error of EAI_NONAME is returned. This flag prevents any type of name resolution service (e.g., the DNS) from being called.

All of the information returned by getaddrinfo() is dynamically allocated: the addrinfo structures, and the socket address structures and canonical node name strings pointed to by the addrinfo structures. To return this information to the system the function freeaddrinfo() is called:

```
#include <sys/socket.h>
#include <netdb.h>

void freeaddrinfo(struct addrinfo *ai);
```

The addrinfo structure pointed to by the ai argument is freed, along with any dynamic storage pointed to by the structure. This operation is repeated until a NULL ai_next pointer is encountered.

To aid applications in printing error messages based on the EAI_xxx codes returned by getaddrinfo(), the following function is defined.

```
#include <sys/socket.h>
#include <netdb.h>

char *gai_strerror(int ecode);
```

The argument is one of the EAI_xxx values defined earlier and the return value points to a string describing the error. If the argument is not one of the EAI_xxx values, the function still returns a pointer to a string whose contents indicate an unknown error.

6.5 Socket Address Structure to Nodename and Service Name

The POSIX 1003.1g specification includes no function to perform the reverse conversion from getaddrinfo(): to look up a nodename and service name, given the binary address and port. Therefore, we define the following function:

```
#include <sys/socket.h>
#include <netdb.h>
```

```
 int getnameinfo(const struct sockaddr *sa, socklen_t
salen,
                char *host, size_t hostlen,
                char *serv, size_t servlen,
                int flags);
```

This function looks up an IP address and port number provided by the caller in the DNS and system-specific database, and returns text strings for both in buffers provided by the caller. The function indicates successful completion by a zero return value; a non-zero return value indicates failure.

The first argument, sa, points to either a sockaddr_in structure (for IPv4) or a sockaddr_in6 structure (for IPv6) that holds the IP address and port number. The salen argument gives the length of the sockaddr_in or sockaddr_in6 structure.

The function returns the nodename associated with the IP address in the buffer pointed to by the host argument. The caller provides the size of this buffer via the hostlen argument. The service name associated with the port number is returned in the buffer pointed to by serv, and the servlen argument gives the length
of this buffer. The caller specifies
not to return either string by providing a zero value for the hostlen or servlen arguments. Otherwise, the caller must provide buffers large enough to hold the nodename and the service name, including the terminating null characters.

Unfortunately most systems do not provide constants that specify the maximum size of either a fully-qualified domain name or a service name. Therefore to aid the application in allocating buffers for these two returned strings the following constants are defined in <netdb.h>:

```
 #define NI_MAXHOST  1025
 #define NI_MAXSERV    32
```

The first value is actually defined as the constant MAXDNAME in recent versions of BIND's <arpa/nameser.h> header (older versions of BIND define this constant to be 256) and the second is a guess based on the services listed in the current Assigned Numbers RFC.

The final argument is a flag that changes the default actions of this function. By default the fully-qualified domain name (FQDN)
for the
host is looked up in the DNS and returned. If the flag bit NI_NOFQDN is set, only the nodename portion of the FQDN is returned for local hosts.

If the flag bit NI_NUMERICHOST is set, or if the host's name cannot be

located in the DNS, the numeric form of the host's address is returned instead of its name (e.g., by calling inet_ntop() instead of getipnodebyaddr()). If the flag bit NI_NAMEREQD is set, an error is

returned if the host's name cannot be located in the DNS.

If the flag bit NI_NUMERICSERV is set, the numeric form of the service address is returned (e.g., its port number) instead of its name. The two NI_NUMERICxxx flags are required to support the "-n" flag that many commands provide.

A fifth flag bit, NI_DGRAM, specifies that the service is a datagram service, and causes getservbyport() to be called with a second argument
of "udp" instead of its default of "tcp". This is required for the few ports (e.g. 512-514) that have different services for UDP and TCP.

These NI_xxx flags are defined in <netdb.h> along with the AI_xxx flags already defined for getaddrinfo().

6.6 Address Conversion Functions

The two functions inet_addr() and inet_ntoa() convert an IPv4 address between binary and text form. IPv6 applications need similar functions. The following two functions convert both IPv6 and IPv4 addresses:

```
#include <sys/socket.h>
#include <arpa/inet.h>

int inet_pton(int af, const char *src, void *dst);

const char *inet_ntop(int af, const void *src,
                      char *dst, size_t size);
```

The inet_pton() function converts an address in its standard text presentation form into its numeric binary form. The af argument specifies the family of the address. Currently the AF_INET and AF_INET6 address families are supported. The src argument points to the string being passed

in. The dst argument points to a buffer into which the function stores the numeric address. The address is returned in network byte order. Inet_pton() returns 1 if the conversion succeeds, 0 if the input is not a valid IPv4 dotted-decimal string or a valid IPv6 address string, or -1 with errno set to EAFNOSUPPORT if the af argument is unknown. The calling application must ensure that the buffer referred to by dst is large enough to hold the numeric address (e.g., 4 bytes for AF_INET or 16 bytes for AF_INET6).

If the af argument is AF_INET, the function accepts a string in the standard IPv4 dotted-decimal form:

ddd.ddd.ddd.ddd

where ddd is a one to three digit decimal number between 0 and 255. Note that many implementations of the existing inet_addr() and inet_aton() functions accept nonstandard input: octal numbers, hexadecimal numbers, and fewer than four numbers. inet_pton() does not accept these formats.

If the af argument is AF_INET6, then the function accepts a string in one of the standard IPv6 text forms defined in Section 2.2 of the addressing architecture specification [2].

The inet_ntop() function converts a numeric address into a text string suitable for presentation. The af argument specifies the family of the address. This can be AF_INET or AF_INET6. The src argument points to a buffer holding an IPv4 address if the af argument is AF_INET, or an IPv6 address if the af argument is AF_INET6, the address must be in network byte order. The dst argument points to a buffer where the function will store the resulting text string. The size argument specifies the size of this buffer. The application must specify a non-NULL dst argument. For IPv6 addresses, the buffer must be at least 46-octets. For IPv4 addresses, the buffer must be at least 16-octets. In order to allow applications to easily declare buffers of the proper size to store IPv4 and IPv6 addresses in string form, the following two constants are defined in <netinet/in.h>:

#define INET_ADDRSTRLEN 16

```
#define INET6_ADDRSTRLEN   46
```

The inet_ntop() function returns a pointer to the buffer containing the text string if the conversion succeeds, and NULL otherwise. Upon failure, errno is set to EAFNOSUPPORT if the af argument is invalid or ENOSPC if the size of the result buffer is inadequate.

6.7 Address Testing Macros

The following macros can be used to test for special IPv6 addresses.

```
#include <netinet/in.h>

int  IN6_IS_ADDR_UNSPECIFIED (const struct in6_addr *);
int  IN6_IS_ADDR_LOOPBACK    (const struct in6_addr *);
int  IN6_IS_ADDR_MULTICAST   (const struct in6_addr *);
int  IN6_IS_ADDR_LINKLOCAL   (const struct in6_addr *);
int  IN6_IS_ADDR_SITELOCAL   (const struct in6_addr *);
int  IN6_IS_ADDR_V4MAPPED    (const struct in6_addr *);
int  IN6_IS_ADDR_V4COMPAT    (const
struct in6_addr *);

int  IN6_IS_ADDR_MC_NODELOCAL(const struct in6_addr *);
int  IN6_IS_ADDR_MC_LINKLOCAL(const struct in6_addr *);
int  IN6_IS_ADDR_MC_SITELOCAL(const struct in6_addr *);
int  IN6_IS_ADDR_MC_ORGLOCAL (const struct in6_addr *);
int  IN6_IS_ADDR_MC_GLOBAL   (const struct in6_addr *);
```

The first seven macros return true if the address is of the specified type, or false otherwise. The last five test the scope of a multicast address and return true if the address is a multicast address of the specified scope or false if the address is either not a multicast address or not of the specified scope. Note that IN6_IS_ADDR_LINKLOCAL and IN6_IS_ADDR_SITELOCAL return true only for the two local-use IPv6 unicast addresses. These two macros do not return true for IPv6 multicast addresses of either link-local scope or site-local scope.

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7. Summary of New Definitions

The following list summarizes the constants, structure, and extern definitions discussed in this memo, sorted by header.

<net/if.h> IF_NAMESIZE
<net/if.h> struct if_nameindex{};

<netdb.h> AI_ADDRCONFIG
<netdb.h> AI_DEFAULT
<netdb.h> AI_ALL
<netdb.h> AI_CANONNAME
<netdb.h> AI_NUMERICHOST
<netdb.h> AI_PASSIVE
<netdb.h> AI_V4MAPPED
<netdb.h> EAI_ADDRFAMILY
<netdb.h> EAI_AGAIN
<netdb.h> EAI_BADFLAGS
<netdb.h> EAI_FAIL
<netdb.h> EAI_FAMILY
<netdb.h> EAI_MEMORY
<netdb.h> EAI_NODATA
<netdb.h> EAI_NONAME
<netdb.h> EAI_SERVICE
<netdb.h> EAI_SOCKTYPE
<netdb.h> EAI_SYSTEM
<netdb.h> NI_DGRAM
<netdb.h> NI_MAXHOST
<netdb.h> NI_MAXSERV
<netdb.h> NI_NAMEREQD
<netdb.h> NI_NOFQDN
<netdb.h> NI_NUMERICHOST
<netdb.h>
NI_NUMERICSERV
<netdb.h> struct addrinfo{};

<netinet/in.h> IN6ADDR_ANY_INIT
<netinet/in.h> IN6ADDR_LOOPBACK_INIT
<netinet/in.h> INET6_ADDRSTRLEN
<netinet/in.h> INET_ADDRSTRLEN
<netinet/in.h> IPPROTO_IPV6
<netinet/in.h> IPV6_JOIN_GROUP
<netinet/in.h> IPV6_LEAVE_GROUP

```
<netinet/in.h>  IPV6_MULTICAST_HOPS
<netinet/in.h>  IPV6_MULTICAST_IF
<netinet/in.h>  IPV6_MULTICAST_LOOP
<netinet/in.h>  IPV6_UNICAST_HOPS
<netinet/in.h>  SIN6_LEN
<netinet/in.h>  extern const struct in6_addr in6addr_any;
<netinet/in.h>  extern const struct in6_addr in6addr_loopback;
<netinet/in.h>  struct in6_addr{};
<netinet/in.h>  struct ipv6_mreq{};
<netinet/in.h>  struct sockaddr_in6{};

<sys/socket.h>  AF_INET6
<sys/socket.h>  PF_INET6
<sys/socket.h>  struct sockaddr_storage;
```

The following list summarizes the function and macro prototypes

discussed in this memo, sorted by header.

```
<arpa/inet.h>   int inet_pton(int, const char *, void *);
<arpa/inet.h>   const char *inet_ntop(int, const void *,
                        char *, size_t);

<net/if.h>      char *if_indextoname(unsigned int, char *);
<net/if.h>      unsigned int if_nametoindex(const char *);
<net/if.h>      void if_freenameindex(struct if_nameindex *);
<net/if.h>      struct if_nameindex *if_nameindex(void);

<netdb.h>       int getaddrinfo(const char *, const char *,
                        const struct addrinfo *,
                        struct addrinfo **);
<netdb.h>       int getnameinfo(const struct sockaddr *, socklen_t,
                        char *, size_t, char *, size_t, int);
<netdb.h>       void freeaddrinfo(struct addrinfo *);
<netdb.h>       char *gai_strerror(int);
<netdb.h>       struct hostent *getipnodebyname(const
 char *, int, int,
                        int *);
<netdb.h>       struct hostent *getipnodebyaddr(const void *, size_t, int,
                        int *);
```

<netdb.h> void freehostent(struct hostent *);

<netinet/in.h> int IN6_IS_ADDR_LINKLOCAL(const struct in6_addr *);
<netinet/in.h> int IN6_IS_ADDR_LOOPBACK(const struct in6_addr *);
<netinet/in.h> int IN6_IS_ADDR_MC_GLOBAL(const struct in6_addr *);
<netinet/in.h> int IN6_IS_ADDR_MC_LINKLOCAL(const struct in6_addr *);
<netinet/in.h> int IN6_IS_ADDR_MC_NODELOCAL(const struct in6_addr *);
<netinet/in.h> int IN6_IS_ADDR_MC_ORGLOCAL(const struct in6_addr *);
<netinet/in.h> int IN6_IS_ADDR_MC_SITELOCAL(const struct in6_addr *);
<netinet/in.h> int IN6_IS_ADDR_MULTICAST(const struct in6_addr *);
<netinet/in.h> int IN6_IS_ADDR_SITELOCAL(const struct in6_addr *);
<netinet/in.h> int IN6_IS_ADDR_UNSPECIFIED(const struct in6_addr *);
<netinet/in.h>
int IN6_IS_ADDR_V4COMPAT(const struct in6_addr *);
<netinet/in.h> int IN6_IS_ADDR_V4MAPPED(const struct in6_addr *);

8. Security Considerations

IPv6 provides a number of new security mechanisms, many of which need to be accessible to applications. Companion memos detailing the extensions to the socket interfaces to support IPv6 security are being written.

9. Year 2000 Considerations

There are no issues for this draft concerning the Year 2000 issue regarding the use of dates.

Changes From RFC 2133

Changes made in the March 1998 Edition (-01 draft):

Changed all "hostname" to "nodename" for consistency with other IPv6 documents.

Section 3.3: changed comment for sin6_flowinfo to be "traffic class & flow info" and updated corresponding text description to current definition of these two fields.

Section 3.10 ("Portability Additions") is new.

Section 6: a new paragraph was added reiterating that the existing gethostbyname() and gethostbyaddr() are not changed.

Section 6.1: change gethostbyname3() to getnodebyname(). Add AI_DEFAULT to handle majority of applications. Renamed AI_V6ADDRCONFIG to AI_ADDRCONFIG and define it for A records and IPv4 addresses too. Defined exactly what getnodebyname() must return if the name argument is a numeric address string.

Section 6.2: change gethostbyaddr() to getnodebyaddr(). Reword items 2 and 3 in the description of how to handle IPv4-mapped and IPv4-compatible addresses to "lookup a name" for a given address, instead of specifying what type of DNS query to issue.

Section 6.3: added two more requirements to getaddrinfo().

Section 7: added the following constants to the list for <netdb.h>: AI_ADDRCONFIG, AI_ALL, and AI_V4MAPPED. Add union sockaddr_union and SA_LEN to the lists for <sys/socket.h>.

Updated references.

Changes made in the November 1997 Edition (-00 draft):

The data types have been changed to conform with Draft 6.6 of the Posix 1003.1g standard.

Section 3.2: data type of s6_addr changed to "uint8_t".

Section 3.3: data type of sin6_family changed to "sa_family_t". data type of sin6_port changed to "in_port_t", data type of sin6_flowinfo changed to "uint32_t".

Section 3.4: same as Section 3.3, plus data type of sin6_len changed to "uint8_t".

Section 6.2: first argument of gethostbyaddr() changed from "const

char *" to "const void *" and second argument changed from "int" to "size_t".

Section 6.4: second argument of getnameinfo() changed from "size_t" to "socklen_t".

The wording was changed when new structures were defined, to be more explicit as to which header must be included to define the structure:

Section 3.2 (in6_addr{}), Section 3.3 (sockaddr_in6{}), Section 3.4 (sockaddr_in6{}), Section 4.3 (if_nameindex{}), Section 5.3 (ipv6_mreq{}), and Section 6.3 (addrinfo{}).

Section 4: NET_RT_LIST changed to NET_RT_IFLIST.

Section 5.1: The IPV6_ADDRFORM socket option was removed.

Section 5.3: Added a note that an option value other than 0 or 1 for IPV6_MULTICAST_LOOP returns an error. Added a note that IPV6_MULTICAST_IF, IPV6_MULTICAST_HOPS, and IPV6_MULTICAST_LOOP can also be used with getsockopt(), but IPV6_ADD_MEMBERSHIP and IPV6_DROP_MEMBERSHIP cannot be used with getsockopt().

Section 6.1: Removed the description of gethostbyname2() and its associated RES_USE_INET6 option, replacing it with gethostbyname3().

Section 6.2: Added requirement that gethostbyaddr() be thread safe. Reworded step 4 to avoid using the RES_USE_INET6 option.

Section 6.3: Added the requirement that getaddrinfo()
and
getnameinfo() be thread safe. Added the AI_NUMERICHOST flag.

Section 6.6: Added clarification about IN6_IS_ADDR_LINKLOCAL and IN6_IS_ADDR_SITELOCAL macros.

Changes made to the draft -01 specification Sept 98

Changed priority to traffic class in the spec.

Added the need for scope identification in section 2.1.

Added sin6_scope_id to struct sockaddr_in6 in sections 3.3 and 3.4.

Changed 3.10 to use generic storage structure to support holding IPv6
addresses and removed the SA_LEN macro.

Distinguished between invalid input parameters and system failures
for Interface Identification in Section 4.1 and 4.2.

Added defaults for multicast operations in section 5.2 and changed
the names from ADD to JOIN and DROP to LEAVE to be consistent with
IPv6 multicast terminology.

Changed getnodebyname to getipnodebyname, getnodebyaddr to
getipnodebyaddr, and added MT safe error code to function parameters
in section 6.

Moved freehostent
to its own sub-section after getipnodebyaddr now
6.3 (so this bumps all remaining sections in section 6.

Clarified the use of AI_ALL and AI_V4MAPPED that these are dependent
on the AF parameter and must be used as a conjunction in section 6.1.

Removed the restriction that literal addresses cannot be used with a
flags argument in section 6.1.

Added Year 2000 Section to the draft

Deleted Reference to the following because the attached is deleted from
the ID directory and has expired. But the logic from the aforementioned
draft still applies, so that was kept in Section 6.2 bullets after 3rd
paragraph.

[7] P. Vixie, "Reverse Name Lookups of Encapsulated IPv4 Addresses
in IPv6", Internet-Draft, <draft-vixie-ipng-ipv4ptr-00.txt>,
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[4] C. Metz, "Network Security API for Sockets",
Internet-Draft, <draft-metz-net-security-api-01.txt>,
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Update current references to current status.

Added alignment notes for in6_addr and sin6_addr.

Clarified further that AI_V4MAPPED must be used with a dotted IPv4 literal address for getipnodebyname(), when address family is AF_INET6.

Added text to clarify "::" and "::1" when used by getipnodebyaddr().

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The getaddrinfo() and getnameinfo() functions are taken from an earlier Internet Draft by Keith Sklower. As noted in that draft, William Durst, Steven Wise, Michael Karels, and Eric Allman provided many useful discussions on the subject of protocol-independent name-to-address translation, and reviewed early versions of Keith Sklower's original proposal. Eric Allman implemented the first prototype of getaddrinfo(). The observation that specifying the pair of name and service would suffice for connecting to a service independent of protocol details was made by Marshall Rose in a proposal to X/Open for a "Uniform Network Interface".

Craig Metz, Jack McCann, Erik Nordmark, Tim Hartrick, and Mukesh Kacker made many contributions to this document. Ramesh Govindan made a number

of contributions and co-authored an earlier version of this memo.

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[4] W. Stevens, M. Thomas, "Advanced Sockets API for IPv6", RFC 2292, February 1998.

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./bin/tests/system/acl/tests.sh SH 2008,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/additional/clean.sh SH 2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/additional/ns1/mx.db ZONE 2016,2018,2019,2020,2021,2022
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./bin/tests/system/additional/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/allow-query/setup.sh SH 2018,2019,2020,2021,2022
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./bin/tests/system/autosign/ns3/autonsec3.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
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./bin/tests/system/autosign/ns3/delzsk.example.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/dname-at-apex-nsec3.example.db.in ZONE 2018,2019,2020,2021,2022

./bin/tests/system/autosign/ns3/inacksk2.example.db.in ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/inacksk3.example.db.in ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/inaczsk.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/inaczsk2.example.db.in ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/inaczsk3.example.db.in ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/insecure.example.db ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/jitter.nsec3.example.db.in ZONE 2019,2020,2021,2022
./bin/tests/system/autosign/ns3/keygen.sh SH
2009,2010,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/nozsk.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/nsec.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/nsec3-to-nsec.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/nsec3.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/nsec3.nsec3.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/nsec3.optout.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/oldsigs.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/optout.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
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./bin/tests/system/autosign/ns3/optout.optout.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/rsasha256.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/rsasha512.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/secure-to-insecure.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/secure-to-insecure2.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/secure.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
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./bin/tests/system/autosign/ns3/sync.example.db.in ZONE 2015,2016,2018,2019,2020,2021,2022
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./bin/tests/system/autosign/ns3/ttl2.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
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./bin/tests/system/builtin/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/cacheclean/dig.batch X 2001,2018,2019,2020,2021,2022
./bin/tests/system/cacheclean/knowngood.dig.out X 2001,2018,2019,2020,2021,2022
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./bin/tests/system/catz/ns1/catalog.example.db.in ZONE 2016,2018,2019,2020,2021,2022
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./bin/tests/system/catz/ns2/named.conf.in CONF-C 2016,2017,2018,2019,2020,2021,2022
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./bin/tests/system/chain/ans3/ans.pl PERL 2017,2018,2019,2020,2021,2022
./bin/tests/system/chain/ans4/README.anspy TXT.BRIEF 2017,2018,2019,2020,2021,2022
./bin/tests/system/chain/ans4/ans.py PYTHON 2017,2018,2019,2020,2021,2022
./bin/tests/system/chain/clean.sh SH 2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
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./bin/tests/system/chain/ns1/root.db ZONE 2011,2016,2017,2018,2019,2020,2021,2022
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./bin/tests/system/chain/ns2/generic.db ZONE 2017,2018,2019,2020,2021,2022
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./bin/tests/system/chain/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/chain/ns7/root.hint ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/chain/prereq.sh SH 2017,2018,2019,2020,2021,2022
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./bin/tests/system/checkconf/bad-lmdb-mapsize-toosmall.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-lmdb-mapsize-unlimited.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-many.conf CONF-C 2005,2012,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-master-request-ixfr.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-maxttlmap.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-noddns.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-options-also-notify.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-acl.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-all-per-second.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-errors-per-second.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-ipv4-prefix-length.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-ipv6-prefix-length.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-max-table-size.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-nodata-per-second.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-nxdomains-per-second.conf CONF-C 2016,2018,2019,2020,2021,2022
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./bin/tests/system/checkconf/bad-rate-limit-referrals-per-second.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-responses-per-second.conf CONF-C 2016,2018,2019,2020,2021,2022
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./bin/tests/system/checkconf/bad-rate-limit-window.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rpz-zone.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-sharedwritable1.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-sharedwritable2.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-sharedzone1.conf CONF-C 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-sharedzone2.conf CONF-C 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-sharedzone3.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-stub-masters-dialup.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-tsig.conf CONF-C 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-update-policy1.conf CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/checkconf/bad-update-policy11.conf CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/checkconf/bad-update-policy4.conf CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/checkconf/check-dlv-ksk-key.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/check-dup-records-fail.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
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./bin/tests/system/checkconf/check-mx-cname-fail.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/check-mx-cname.db ZONE 2014,2016,2018,2019,2020,2021,2022
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./bin/tests/system/checkconf/check-mx.db ZONE 2014,2016,2018,2019,2020,2021,2022
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./bin/tests/system/checkconf/check-root-ksk-2010.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/check-root-ksk-2017.conf CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/checkconf/check-srv-cname.db ZONE 2014,2016,2018,2019,2020,2021,2022
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./bin/tests/system/checkconf/warn-dlv-auto.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/warn-dlv-dlv.isc.org.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/warn-duplicate-key.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/checkconf/warn-duplicate-root-key.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/checkconf/warn-keydir.conf CONF-C 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/warn-validation-auto-key.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/checkds/clean.sh SH 2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkds/dig.bat BAT 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkds/dig.pl PERL 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkds/dig.sh SH 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkds/missing.example.dlv.example.dlv.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/missing.example.dnskey.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/missing.example.ds.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/none.example.dlv.example.dlv.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/none.example.dnskey.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/none.example.ds.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/ok.example.dlv.example.dlv.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/ok.example.dnskey.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/ok.example.ds.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/tests.sh SH 2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkds/wrong.example.dlv.example.dlv.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/wrong.example.dnskey.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/wrong.example.ds.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checknames/clean.sh SH 2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns1/fail.example.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022

./bin/tests/system/checknames/ns1/fail.update.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns1/ignore.example.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns1/ignore.update.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns1/root.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns1/warn.example.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns1/warn.update.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns2/root.hints ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns3/root.hints ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns4/master-ignore.update.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns4/root.hints ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/setup.sh SH 2004,2007,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/tests.sh SH 2004,2007,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/clean.sh SH 2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/setup.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/tests.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-badclass.raw X 2015,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-caa-rr.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-cdnskey.db ZONE 2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-cds.db ZONE 2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-dhcid.db ZONE 2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-dns-sd-reverse.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-eid.db ZONE 2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-generate-tkey.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-nimloc.db ZONE 2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-nsap-empty.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-nsap-odd-nibble.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-nsec3-padded.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-nsec3owner-padded.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-tkey.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-tsig.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-unspec.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad1.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad2.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad3.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad4.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/badttl.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/crashzone.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/delegating-ns-address-below-dname.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/good-cdnskey.db ZONE 2019,2020,2021,2022
./bin/tests/system/checkzone/zones/good-cds.db ZONE 2019,2020,2021,2022
./bin/tests/system/checkzone/zones/good-dns-sd-reverse.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/good-gc-msdcs.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/good-nsap.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/good-nsec3-nopadhash.db ZONE 2014,2016,2018,2019,2020,2021,2022

./bin/tests/system/checkzone/zones/good-occulted-ns-by-dname.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/good-occulted-ns-by-ns.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/good1.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/inherit.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/nowarn.inherited.owner.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/ns-address-below-dname.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/spf.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/test1.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/test2.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/warn.inherit.origin.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/warn.inherited.owner.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/cleanall.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/cleanpkcs11.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/common/controls.conf CONF-C 2000,2001,2004,2007,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/common/controls.conf.in CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/common/root.hint ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/conf.sh.in SH
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,202
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./bin/tests/system/conf.sh.win32 SH 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/cookie/ans9/ans.py PYTHON 2020,2021,2022
./bin/tests/system/cookie/bad-cookie-badaes.conf.in X 2019,2020,2021,2022
./bin/tests/system/cookie/bad-cookie-badhex.conf CONF-C 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/cookie/bad-cookie-badsha1.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/cookie/bad-cookie-badsha256.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/cookie/bad-cookie-badsiphash24.conf X 2019,2020,2021,2022
./bin/tests/system/cookie/bad-cookie-toolong.conf CONF-C 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/cookie/clean.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/cookie/good-cookie-aes.conf.in X 2019,2020,2021,2022
./bin/tests/system/cookie/good-cookie-sha1.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/cookie/good-cookie-sha256.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/cookie/good-cookie-siphash24.conf X 2019,2020,2021,2022
./bin/tests/system/cookie/ns1/example.db ZONE 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns1/root.hint ZONE 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns2/root.db ZONE 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns3/root.hint ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns4/root.hint ZONE 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns5/root.hint ZONE 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns6/root.hint ZONE 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/cookie/ns7/root.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns8/example.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns8/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/cookie/prereq.sh SH 2020,2021,2022
./bin/tests/system/cookie/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/cookie/tests.sh SH 2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/coverage/01-ksk-inactive/README X 2013,2018,2019,2020,2021,2022
./bin/tests/system/coverage/01-ksk-inactive/expect X 2013,2018,2019,2020,2021,2022
./bin/tests/system/coverage/02-zsk-inactive/README X 2013,2018,2019,2020,2021,2022
./bin/tests/system/coverage/02-zsk-inactive/expect X 2013,2018,2019,2020,2021,2022
./bin/tests/system/coverage/03-ksk-unpublished/README X 2013,2018,2019,2020,2021,2022
./bin/tests/system/coverage/03-ksk-unpublished/expect X 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/coverage/04-zsk-unpublished/README X 2013,2018,2019,2020,2021,2022
./bin/tests/system/coverage/04-zsk-unpublished/expect X 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/coverage/05-ksk-unpub-active/README X 2013,2018,2019,2020,2021,2022
./bin/tests/system/coverage/05-ksk-unpub-active/expect X 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/coverage/06-zsk-unpub-active/README X 2013,2018,2019,2020,2021,2022
./bin/tests/system/coverage/06-zsk-unpub-active/expect X 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/coverage/07-ksk-ttl/README X 2013,2018,2019,2020,2021,2022
./bin/tests/system/coverage/07-ksk-ttl/expect X 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/coverage/08-zsk-ttl/README X 2013,2018,2019,2020,2021,2022
./bin/tests/system/coverage/08-zsk-ttl/expect X 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/coverage/09-check-zsk/README X 2014,2018,2019,2020,2021,2022
./bin/tests/system/coverage/09-check-zsk/expect X 2014,2018,2019,2020,2021,2022
./bin/tests/system/coverage/10-check-ksk/README X 2014,2018,2019,2020,2021,2022
./bin/tests/system/coverage/10-check-ksk/expect X 2014,2018,2019,2020,2021,2022
./bin/tests/system/coverage/11-cutoff/README X 2014,2018,2019,2020,2021,2022
./bin/tests/system/coverage/11-cutoff/expect X 2014,2018,2019,2020,2021,2022
./bin/tests/system/coverage/12-ksk-deletion/expect X 2018,2019,2020,2021,2022
./bin/tests/system/coverage/13-dotted-dotless/expect X 2019,2020,2021,2022
./bin/tests/system/coverage/clean.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/coverage/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/coverage/setup.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/coverage/tests.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/database/clean.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/database/ns1/named1.conf.in CONF-C 2011,2013,2018,2019,2020,2021,2022
./bin/tests/system/database/ns1/named2.conf.in CONF-C 2011,2013,2018,2019,2020,2021,2022
./bin/tests/system/database/setup.sh SH 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/database/tests.sh SH 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/delzone/clean.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/delzone/ns1/inlineslave.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/delzone/ns1/named.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/delzone/ns2/added.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/delzone/ns2/named.args X 2016,2018,2019,2020,2021,2022
./bin/tests/system/delzone/ns2/named.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/delzone/ns2/normal.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/delzone/tests.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/dialup/clean.sh SH 2019,2020,2021,2022

./bin/tests/system/dialup/ns1/example.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dialup/ns1/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dialup/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dialup/ns2/hint.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dialup/ns2/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dialup/ns3/hint.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dialup/ns3/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dialup/tests.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/digcomp.pl PERL 2000,2001,2004,2007,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/digdelv/ans4/startme X 2017,2018,2019,2020,2021,2022
./bin/tests/system/digdelv/ans7/ans.pl PERL 2020,2021,2022
./bin/tests/system/digdelv/clean.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/digdelv/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/digdelv/ns1/root.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/digdelv/ns2/example.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/digdelv/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/digdelv/prereq.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/digdelv/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/digdelv/tests.sh SH 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/ditch.pl PERL 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/clean.sh SH 2004,2007,2010,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns1/root.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns1/rootservers.utld.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns1/sign.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns2/druz.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns2/hints ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns2/sign.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022
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./bin/tests/system/dlv/ns3/child.db.in ZONE 2004,2007,2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns3/dlv.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns3/hints ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns3/sign.sh SH 2004,2007,2009,2010,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns4/child.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns4/hints ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns5/hints ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns5/rndc.conf CONF-C 2004,2007,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns6/child.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns6/hints ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns6/sign.sh SH 2010,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns7/hints ZONE 2019,2020,2021,2022
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./bin/tests/system/dlv/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/setup.sh SH 2004,2007,2009,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/tests.sh SH 2004,2007,2010,2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlz/clean.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlz/ns1/dns-root/com/broken/dns.d/@/DNAME=10=example.net.= TXT.BRIEF 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlz/ns1/dns-root/com/broken/dns.d/@/NS=10=example.com.= TXT.BRIEF 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlz/ns1/dns-root/com/broken/dns.d/@/SOA=10=ns.example.com.=root.example.com.=None=None=None=None=None= TXT.BRIEF 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlz/ns1/dns-root/com/example/dns.d/@/DNAME=10=example.net.= TXT.BRIEF 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlz/ns1/dns-root/com/example/dns.d/@/NS=10=example.com.= TXT.BRIEF 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlz/ns1/dns-root/com/example/dns.d/@/SOA=10=ns.example.com.=root.example.com.=2010062900=0=0=0=10= TXT.BRIEF 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlz/ns1/dns-root/com/example/xfr.d/10.53.0.1 TXT.BRIEF 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlz/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dlz/prereq.sh SH 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlz/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/dlz/tests.sh SH 2010,2011,2012,2013,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlzexternal/Makefile.in MAKE 2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/dlzexternal/clean.sh SH 2010,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlzexternal/driver.c C 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/dlzexternal/driver.h C 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlzexternal/ns1/dlzs.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dlzexternal/ns1/named.conf.in CONF-C 2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlzexternal/ns1/root.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlzexternal/prereq.sh SH 2010,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlzexternal/setup.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlzexternal/tests.sh SH 2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/clean.sh SH 2010,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad1.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad18.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad19.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad2.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad3.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad4.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad5.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad6.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad7.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad8.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad9.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/good1.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/good2.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/good3.conf CONF-C 2010,2016,2018,2019,2020,2021,2022

./bin/tests/system/dns64/conf/good4.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/good5.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/warn1.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dns64/conf/warn2.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dns64/conf/warn3.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dns64/conf/warn4.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dns64/conf/warn5.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dns64/conf/warn6.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dns64/conf/warn7.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dns64/conf/warn8.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dns64/ns1/example.db ZONE 2010,2011,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dns64/ns1/root.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/ns1/sign.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dns64/ns2/rpz.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/setup.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/tests.sh SH 2010,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/README TXT.BRIEF 2000,2001,2002,2004,2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ans10/ans.py PYTHON 2020,2021,2022
./bin/tests/system/dnssec/clean.sh SH
2000,2001,2002,2004,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/dnssec_update_test.pl PERL 2002,2004,2007,2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns1/root.db.in ZONE
2000,2001,2004,2007,2010,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns1/sign.sh SH
2000,2001,2002,2003,2004,2006,2007,2008,2009,2010,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/algroll.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/badparam.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/cdnskey-auto.secure.db.in ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/cdnskey-update.secure.db.in ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/cdnskey.secure.db.in ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/cds-auto.secure.db.in ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/cds-update.secure.db.in ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/cds.secure.db.in ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/child.nsec3.example.db ZONE 2006,2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/child.optout.example.db ZONE 2006,2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/dlv.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/dst.example.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/example.db.in ZONE
2000,2001,2002,2004,2007,2008,2009,2010,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/in-addr.arpa.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/insecure.secure.example.db ZONE
2000,2001,2004,2007,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/key.db.in ZONE 2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/dnssec/ns2/private.secure.example.db.in ZONE
2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/rfc2335.example.db X 2004,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/sign.sh SH
2000,2001,2002,2003,2004,2006,2007,2008,2009,2010,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/single-nsec3.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/template.secure.db.in ZONE 2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/too-many-iterations.db.in ZONE 2021,2022
./bin/tests/system/dnssec/ns3/auto-nsec.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/auto-nsec3.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/bogus.example.db.in ZONE
2000,2001,2004,2007,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/dname-at-apex-nsec3.example.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/dnskey-nsec3-unknown.example.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/dnskey-unknown.example.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/dnskey-unsupported-2.example.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/dnskey-unsupported.example.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/dynamic.example.db.in ZONE 2002,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/expired.example.db.in ZONE 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/expiring.example.db.in ZONE 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/future.example.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/generic.example.db.in ZONE 2001,2002,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/inline.example.db ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/insecure.below-cname.example.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/insecure.example.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/insecure.nsec3.example.db ZONE 2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/insecure.optout.example.db ZONE 2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/key.db.in ZONE 2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/kskonly.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/lower.example.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/managed-future.example.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/multiple.example.db.in ZONE 2006,2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/nosign.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/nsec3-unknown.example.db.in ZONE 2006,2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/nsec3.example.db.in ZONE 2006,2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/nsec3.nsec3.example.db.in ZONE 2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/nsec3.optout.example.db.in ZONE 2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/occluded.example.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/optout-unknown.example.db.in ZONE 2006,2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/optout.example.db.in ZONE 2006,2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/optout.nsec3.example.db.in ZONE 2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/optout.optout.example.db.in ZONE 2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/publish-inactive.example.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/rsasha256.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/rsasha512.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/secure.below-cname.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/secure.example.db.in ZONE

2000,2001,2004,2007,2008,2010,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/secure.nsec3.example.db.in ZONE 2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/secure.optout.example.db.in ZONE 2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/siginterval.example.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/siginterval1.conf CONF-C 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/siginterval2.conf CONF-C 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/sign.sh SH
2000,2001,2002,2004,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/split-dnssec.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/split-smart.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/ttlpatch.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/unsupported-algorithm.key X 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/update-nsec3.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/upper.example.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns4/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns4/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns4/named3.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns4/named4.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns4/named5.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns5/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns5/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns5/sign.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns5/trusted.conf.bad CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns6/named.args X 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns6/optout-tld.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns6/sign.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns7/named.nosoa TXT.BRIEF 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns7/nosoa.secure.example.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns7/sign.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns7/split-rrsig.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns8/named.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/dnssec/ns9/named.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/dnssec/ntadiff.pl PERL 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/prereq.sh SH
2000,2001,2002,2004,2006,2007,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/setup.sh SH
2000,2001,2004,2007,2009,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/Kexample.com.+005+07065.key X 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/Kexample.com.+005+07065.private X 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/Kexample.com.+005+23362.key X 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/Kexample.com.+005+23362.private X 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/Kexample.com.+008+15002.key X 2021,2022
./bin/tests/system/dnssec/signer/general/Kexample.com.+008+15002.private X 2021,2022
./bin/tests/system/dnssec/signer/general/Kexample.com.+008+63613.key X 2021,2022
./bin/tests/system/dnssec/signer/general/Kexample.com.+008+63613.private X 2021,2022

./bin/tests/system/dnssec/signer/general/bogus-ksk.key X 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/bogus-zsk.key X 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/test1.zone ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/test2.zone ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/test3.zone ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/test4.zone ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/test5.zone ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/test6.zone ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/test7.zone ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/test8.zone ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/test9.zone ZONE 2021,2022
./bin/tests/system/dnssec/signer/remove.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/remove2.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/tests.sh SH
2000,2001,2002,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,202
1,2022
./bin/tests/system/dnstap/README TXT.BRIEF 2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-buffer-hint-max.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-buffer-hint-min.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-flush-timeout-max.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-flush-timeout-min.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-input-queue-size-max.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-input-queue-size-min.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-input-queue-size-po2.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-output-notify-threshold.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-output-queue-size-max.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-output-queue-size-min.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-reopen-interval-max.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-reopen-interval-min.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-missing-dnstap-output-view.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dnstap/bad-missing-dnstap-output.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dnstap/clean.sh SH 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/good-dnstap-in-options.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dnstap/good-dnstap-in-view.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dnstap/good-fstrm-set-buffer-hint.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/good-fstrm-set-flush-timeout.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/good-fstrm-set-input-queue-size.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/good-fstrm-set-output-notify-threshold.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/good-fstrm-set-output-queue-model-mpsc.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/good-fstrm-set-output-queue-model-spsc.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/good-fstrm-set-output-queue-size.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/good-fstrm-set-reopen-interval.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/large-answer.fstrm X 2019,2020,2021,2022
./bin/tests/system/dnstap/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnstap/ns1/root.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/ns2/example.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnstap/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/dnstap/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnstap/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/dnstap/tests.sh SH 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/ydump.py PYTHON 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/dscp/clean.sh SH 2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns1/named.args X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns1/root.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns2/named.args X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns3/hint.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns3/named.args X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns4/named.args X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns4/root.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns5/named.args X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns6/hint.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns6/named.args X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns7/named.args X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dscp/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/dscp/tests.sh SH 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/clean.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/ns1/root.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/ns1/sign.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/ns2/bad.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/ns2/good.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/ns2/sign.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/prereq.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/setup.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/tests.sh SH 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dupsigs/check_journal.pl PERL 2018,2019,2020,2021,2022
./bin/tests/system/dupsigs/clean.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/dupsigs/ns1/named.args X 2018,2019,2020,2021,2022
./bin/tests/system/dupsigs/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dupsigs/ns1/reset_keys.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/dupsigs/ns1/signing.test.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dupsigs/prereq.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/dupsigs/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/dupsigs/tests.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/dyndb/Makefile.in MAKE 2015,2016,2018,2019,2020,2021,2022

./bin/tests/system/dyndb/clean.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/AUTHORS X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/COPYING X 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/Makefile.in MAKE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/README X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/db.c X 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/db.h X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/driver.c X 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/instance.c X 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/instance.h X 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/lock.c X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/lock.h X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/log.c X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/log.h X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/syncptr.c X 2015,2017,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/syncptr.h X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/util.h X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/zone.c X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/zone.h X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dyndb/prereq.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/dyndb/tests.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/ecdsa/clean.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/ecdsa/ns1/named.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/ecdsa/ns1/root.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/ecdsa/ns1/sign.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/ecdsa/ns2/named.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/ecdsa/prereq.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/ecdsa/setup.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/ecdsa/tests.sh SH 2012,2013,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/clean.sh SH 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/ns1/named.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/ns1/root.db.in ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/ns1/sign.sh SH 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/Xexample.com.+015+03613.key X 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/Xexample.com.+015+03613.private X 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/Xexample.com.+015+35217.key X 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/Xexample.com.+015+35217.private X 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/Xexample.com.+016+09713.key X 2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/Xexample.com.+016+09713.private X 2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/Xexample.com.+016+38353.key X 2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/Xexample.com.+016+38353.private X 2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/example.com.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/named.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/sign.sh SH 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/prereq.sh SH 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/setup.sh SH 2017,2018,2019,2020,2021,2022

./bin/tests/system/eddsa/tests.sh SH 2017,2018,2019,2020,2021,2022
./bin/tests/system/ednscompliance/clean.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/ednscompliance/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/ednscompliance/ns1/root.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/ednscompliance/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/ednscompliance/tests.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/emptyzones/clean.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/emptyzones/ns1/empty.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/emptyzones/ns1/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/emptyzones/ns1/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/emptyzones/ns1/rfc1918.zones CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/emptyzones/ns1/root.hint ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/emptyzones/setup.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/emptyzones/tests.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/feature-test.c C 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/ans4/ans.pl PERL 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/clean.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/ns1/root.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/ns2/example.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/ns3/named.args X 2015,2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/ns3/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/ns3/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/ns3/named3.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/ns3/root.hint ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/prereq.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/setup.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/tests.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/clean.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/bad1.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/bad2.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/bad3.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/bad4.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/bad5.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/bad6.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/good1.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/good2.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/good3.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/good4.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/good5.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/good6.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/good7.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/good8.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns1/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns1/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns1/root.db ZONE 2010,2012,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns1/sign.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022

./bin/tests/system/filter-aaaa/ns1/signed.db.in ZONE 2010,2012,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns1/signed.db.presigned X 2014,2017,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns1/unsigned.db ZONE 2010,2012,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns2/hints ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns2/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns2/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns3/hints ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns3/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns3/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns4/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns4/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns4/root.db ZONE 2010,2012,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns4/sign.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
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./bin/tests/system/filter-aaaa/ns4/unsigned.db ZONE 2010,2012,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns5/hints ZONE 2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/prereq.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/setup.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/tests.sh SH 2010,2012,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/formerr/clean.sh SH 2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/formerr/formerr.pl PERL 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/formerr/nametoolong X 2013,2018,2019,2020,2021,2022
./bin/tests/system/formerr/noquestions X 2013,2018,2019,2020,2021,2022
./bin/tests/system/formerr/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/formerr/ns1/root.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/formerr/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/formerr/tests.sh SH 2013,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/formerr/twoquestions X 2013,2018,2019,2020,2021,2022
./bin/tests/system/forward/ans6/startme X 2019,2020,2021,2022
./bin/tests/system/forward/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/forward/ns1/example.db X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/forward/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/forward/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/forward/ns2/example.db X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/forward/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/forward/ns2/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/forward/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/forward/ns3/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/forward/ns4/malicious.db ZONE 2020,2021,2022
./bin/tests/system/forward/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/forward/ns4/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/forward/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/forward/ns5/rebind.db ZONE 2020,2021,2022
./bin/tests/system/forward/ns5/root.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/forward/ns7/named.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/forward/ns7/root.db ZONE 2019,2020,2021,2022

./bin/tests/system/forward/prereq.sh SH 2019,2020,2021,2022
./bin/tests/system/forward/rfc1918-inherited.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/forward/rfc1918-notinherited.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/forward/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/forward/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/forward/ula-inherited.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/forward/ula-notinherited.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/genzone.sh SH
2001,2002,2003,2004,2007,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/geoip/clean.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIP.csv X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIP.dat X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPASNum.csv X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPASNum.dat X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPASNumv6.csv X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPASNumv6.dat X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPCity.csv X 2013,2018,2019,2020,2021,2022
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./bin/tests/system/geoip/data/GeoIPDomain.csv X 2013,2018,2019,2020,2021,2022
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./bin/tests/system/geoip/data/GeoIPISP.csv X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPISP.dat X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPNetSpeed.csv X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPNetSpeed.dat X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPOrg.csv X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPOrg.dat X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPRegion.csv X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPRegion.dat X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPv6.csv X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPv6.dat X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/README TXT.BRIEF 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/example.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named10.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named11.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named12.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named13.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named14.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named15.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named16.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named3.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named4.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named5.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named6.conf.in CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/geoip/ns2/named8.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named9.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/options.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/geoip/prereq.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/geoip/setup.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/geoip/tests.sh SH 2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/geoip2/clean.sh SH 2019,2020,2021,2022
./bin/tests/system/geoip2/conf/bad-areacode.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/conf/bad-dbname.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/conf/bad-netspeed.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/conf/bad-regiondb.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/conf/bad-threeletter.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/conf/good-options.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/data/GeoIP2-City.json X 2019,2020,2021,2022
./bin/tests/system/geoip2/data/GeoIP2-City.mmdb X 2019,2020,2021,2022
./bin/tests/system/geoip2/data/GeoIP2-Country.json X 2019,2020,2021,2022
./bin/tests/system/geoip2/data/GeoIP2-Country.mmdb X 2019,2020,2021,2022
./bin/tests/system/geoip2/data/GeoIP2-Domain.json X 2019,2020,2021,2022
./bin/tests/system/geoip2/data/GeoIP2-Domain.mmdb X 2019,2020,2021,2022
./bin/tests/system/geoip2/data/GeoIP2-ISP.json X 2019,2020,2021,2022
./bin/tests/system/geoip2/data/GeoIP2-ISP.mmdb X 2019,2020,2021,2022
./bin/tests/system/geoip2/data/GeoLite2-ASN.json X 2019,2020,2021,2022
./bin/tests/system/geoip2/data/GeoLite2-ASN.mmdb X 2019,2020,2021,2022
./bin/tests/system/geoip2/data/README.md MKD 2019,2020,2021,2022
./bin/tests/system/geoip2/data/write-test-data.pl PERL 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/example.db.in ZONE 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named1.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named10.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named11.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named12.conf.in CONF-C 2019,2020,2021,2022
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./bin/tests/system/geoip2/ns2/named14.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named2.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named3.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named4.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named5.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named6.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named7.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named8.conf.in CONF-C 2019,2020,2021,2022
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./bin/tests/system/geoip2/prereq.sh SH 2019,2020,2021,2022
./bin/tests/system/geoip2/setup.sh SH 2019,2020,2021,2022
./bin/tests/system/geoip2/tests.sh SH 2019,2020,2021,2022
./bin/tests/system/glue/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/glue/fi.good X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/glue/noglue.good X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/glue/ns1/cache.in ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
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./bin/tests/system/glue/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/glue/ns1/root-servers.nil.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/glue/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/glue/setup.sh SH 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/glue/tests.sh SH 2000,2001,2003,2004,2007,2012,2013,2016,2018,2019,2020,2021,2022
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./bin/tests/system/glue/yy.good X 2000,2001,2003,2018,2019,2020,2021,2022
./bin/tests/system/gost/clean.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/gost/ns1/named.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/gost/ns1/root.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/gost/ns1/sign.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/gost/ns2/named.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
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./bin/tests/system/gost/setup.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/gost/tests.sh SH 2010,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/idna/clean.sh SH 2018,2019,2020,2021,2022
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./bin/tests/system/idna/ns1/root.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/idna/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/idna/tests.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/ifconfig.bat BAT 2016,2018,2019,2020,2021,2022
./bin/tests/system/ifconfig.sh SH
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./bin/tests/system/inline/checkdsa.sh.in SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/clean.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/inline/ns1/root.db.in ZONE 2011,2012,2013,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns1/sign.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022
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./bin/tests/system/inline/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/inline/ns2/nsec3-loop.db.in ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns3/master.db.in ZONE 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns3/master2.db.in ZONE 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns3/master3.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns3/master4.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns3/master5.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/inline/ns3/master6.db.in ZONE 2019,2020,2021,2022
./bin/tests/system/inline/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/inline/ns3/sign.sh SH 2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/inline/ns4/noixfr.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns5/named.conf.post CONF-C 2011,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns5/named.conf.pre CONF-C 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/inline/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/inline/ns7/sign.sh SH 2017,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns8/example.com.db.in ZONE 2020,2021,2022

./bin/tests/system/inline/ns8/named.conf.in CONF-C 2020,2021,2022
./bin/tests/system/inline/ns8/sign.sh SH 2020,2021,2022
./bin/tests/system/inline/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/setup.sh SH 2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/inline/tests.sh SH 2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/integrity/clean.sh SH 2017,2018,2019,2020,2021,2022
./bin/tests/system/integrity/ns1/mx-cname.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/integrity/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/integrity/ns1/srv-cname.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/integrity/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/integrity/tests.sh SH 2017,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ans2/startme X 2011,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/clean.sh SH 2001,2004,2007,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns1/startme X 2012,2013,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns3/mytest0.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns3/mytest1.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns3/mytest2.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns3/subtest0.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns3/subtest1.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns5/named.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/ixfr/prereq.sh SH 2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/setup.sh SH 2001,2004,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/tests.sh SH 2001,2004,2007,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/01-ksk-inactive/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/01-ksk-inactive/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/02-zsk-inactive/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/02-zsk-inactive/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/03-ksk-unpublished/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/03-ksk-unpublished/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/04-zsk-unpublished/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/04-zsk-unpublished/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/05-ksk-unpub-active/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/05-ksk-unpub-active/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/06-zsk-unpub-active/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/06-zsk-unpub-active/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/07-ksk-ttl/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/07-ksk-ttl/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/08-zsk-ttl/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/08-zsk-ttl/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/09-no-keys/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/09-no-keys/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/10-change-roll/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/10-change-roll/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/11-many-simul/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/11-many-simul/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/12-many-active/README TXT.BRIEF 2016,2018,2019,2020,2021,2022

./bin/tests/system/keymgr/12-many-active/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/13-noroll/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/13-noroll/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/14-wrongalg/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/14-wrongalg/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/15-unspec/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/15-unspec/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/16-wrongalg-unspec/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/16-wrongalg-unspec/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/17-noforce/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/17-noforce/expect X 2016,2018,2019,2020,2021,2022
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./bin/tests/system/keymgr/18-nonstd-prepub/expect X 2016,2018,2019,2020,2021,2022
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./bin/tests/system/keymgr/19-old-keys/README TXT.BRIEF 2019,2020,2021,2022
./bin/tests/system/keymgr/19-old-keys/expect X 2019,2020,2021,2022
./bin/tests/system/keymgr/19-old-keys/extra.sh SH 2019,2020,2021,2022
./bin/tests/system/keymgr/19-old-keys/policy.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/keymgr/clean.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/policy.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/policy.good X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/policy.sample CONF-C 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/prereq.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/setup.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/testpolicy.py PYTHON 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/tests.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/build.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/clean.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns1/named1.conf.in CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/legacy/ns1/trusted.conf X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns10/ednsrefused.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns10/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns10/named.ednsrefused X 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns2/dropedns.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns2/named.dropedns X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns3/dropedns-notcp.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns3/named.dropedns X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns3/named.notcp X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns4/named.args X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns4/plain.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns5/named.args X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns5/named.notcp X 2014,2018,2019,2020,2021,2022

./bin/tests/system/legacy/ns5/plain-notcp.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns6/edns512.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns6/edns512.db.signed X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns6/named.args X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns6/sign.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns7/edns512-notcp.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns7/edns512-notcp.db.signed X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns7/named.args X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns7/named.notcp X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns7/sign.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns8/ednsformerr.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns8/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns8/named.ednsformerr X 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns9/ednsnotimp.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns9/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns9/named.ednsnotimp X 2018,2019,2020,2021,2022
./bin/tests/system/legacy/setup.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/tests.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/limits/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/limits/knowngood.dig.out.1000 X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/limits/knowngood.dig.out.2000 X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/limits/knowngood.dig.out.3000 X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/limits/knowngood.dig.out.4000 X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/limits/knowngood.dig.out.a-maximum-rrset X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/limits/ns1/example.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/limits/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/limits/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/limits/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/limits/tests.sh SH 2000,2001,2004,2007,2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/clean.sh SH 2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/ns1/controls.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/ns1/named.dirconf CONF-C 2011,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/ns1/named.pipeconf CONF-C 2011,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/ns1/named.plain CONF-C 2011,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/ns1/named.plainconf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/ns1/named.symconf CONF-C 2011,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/ns1/named.unlimited CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/ns1/named.versconf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/ns1/rndc.conf.in CONF-C 2011,2013,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/ns1/root.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/setup.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/tests.sh SH 2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/Makefile.in MAKE
2000,2001,2002,2004,2007,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/clean.sh SH 2008,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/lwresd1/lwresd.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022

./bin/tests/system/lwresd/lwresd1/nosearch.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/lwresd1/resolv.conf CONF-SH
2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/lwtest.c C
2000,2001,2002,2004,2007,2008,2012,2013,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/ns1/10.10.10.in-addr.arpa.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/ns1/e.example1.db X 2008,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/ns1/example1.db ZONE
2000,2001,2002,2003,2004,2007,2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/ns1/example2.db ZONE 2000,2001,2002,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/ns1/ip6.arpa.db ZONE 2000,2001,2002,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/ns1/ip6.int.db ZONE 2000,2001,2002,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/ns1/named.conf CONF-C
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./bin/tests/system/lwresd/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
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./bin/tests/system/lwresd/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/clean.sh SH 2001,2004,2007,2010,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/knowngood.dig.out X 2001,2004,2012,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/ns1/include.db ZONE 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/masterfile/ns1/sub.db ZONE 2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/ns1/ttl1.db ZONE 2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/ns1/ttl2.db ZONE 2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/ns2/example.db ZONE 2010,2016,2018,2019,2020,2021,2022
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./bin/tests/system/masterfile/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/masterfile/tests.sh SH 2001,2004,2007,2010,2012,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/zone/inheritownerafterinclude.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/zone/inheritownerafterinclude.good X 2015,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/zone/nameservers.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterformat/clean.sh SH 2005,2007,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterformat/ns1/compile.sh SH
2005,2006,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterformat/ns1/example.db ZONE 2005,2007,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterformat/ns1/large.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
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./bin/tests/system/masterformat/ns1/signed.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterformat/ns2/formerly-text.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterformat/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/masterformat/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/masterformat/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterformat/setup.sh SH 2005,2006,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterformat/tests.sh SH 2005,2007,2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/metadata/child.db ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/metadata/clean.sh SH 2009,2011,2012,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/metadata/parent.db ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/metadata/prereq.sh SH 2009,2012,2014,2016,2018,2019,2020,2021,2022

./bin/tests/system/metadata/setup.sh SH 2009,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/metadata/tests.sh SH 2009,2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/mkeys/README TXT.BRIEF 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/mkeys/clean.sh SH 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns1/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns1/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns1/named3.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns1/root.db ZONE 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns1/sign.sh SH 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns1/unsupported.key X 2019,2020,2021,2022
./bin/tests/system/mkeys/ns2/named.args X 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns3/named.args X 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/mkeys/ns5/named2.args X 2017,2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns6/named.args X 2019,2020,2021,2022
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./bin/tests/system/mkeys/ns6/setup.sh SH 2019,2020,2021,2022
./bin/tests/system/mkeys/ns6/unsupported-managed.key X 2019,2020,2021,2022
./bin/tests/system/mkeys/ns7/named.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/mkeys/prereq.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/mkeys/setup.sh SH 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/mkeys/tests.sh SH 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/names/clean.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/names/ns1/example.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/names/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/names/setup.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/names/tests.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/notify/clean.sh SH 2000,2001,2004,2007,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/notify/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/notify/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/notify/ns2/example1.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/notify/ns2/example2.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/notify/ns2/example3.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/notify/ns2/example4.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/notify/ns2/generic.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/notify/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/notify/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/notify/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/notify/ns4/named.port.in X 2018,2019,2020,2021,2022
./bin/tests/system/notify/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/notify/ns5/x21.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/notify/setup.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/notify/tests.sh SH
2000,2001,2004,2007,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/nslookup/clean.sh SH 2014,2015,2016,2018,2019,2020,2021,2022

./bin/tests/system/nslookup/ns1/example.net.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/nslookup/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/nslookup/setup.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/nslookup/tests.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ans4/ans.pl PERL 2017,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/clean.sh SH
2000,2001,2004,2007,2009,2010,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/commandlist X 2012,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/knowngood.ns1.after X 2000,2001,2003,2004,2009,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/knowngood.ns1.afterstop X 2001,2004,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/knowngood.ns1.before X 2000,2001,2003,2004,2009,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/krb/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns1/example1.db ZONE
2000,2001,2002,2004,2007,2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns1/many.test.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns1/max-ttl.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns1/sample.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns10/dns.keytab X 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns10/example.com.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns10/in-addr.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns10/machine.ccache X 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns10/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns2/sample.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns3/delegation.test.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns3/dnskey.test.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns3/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns3/nsec3param.test.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns3/sign.sh SH 2010,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns3/too-big.test.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns5/local.db.in ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns5/named.args X 2017,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns5/named.conf.in CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns6/in-addr.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns6/named.args X 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns7/dns.keytab X 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns7/example.com.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns7/in-addr.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns7/machine.ccache X 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns8/dns-other-than-KRB5_KTNAME.keytab X 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns8/example.com.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns8/in-addr.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns8/machine.ccache X 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns8/named.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/nsupdate/ns9/dns.keytab X 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns9/example.com.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns9/in-addr.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns9/machine.ccache X 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns9/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/prereq.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/setup.sh SH
2000,2001,2004,2007,2009,2010,2011,2012,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/tests.sh SH
2000,2001,2004,2007,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/update_test.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/verylarge.in X 2013,2018,2019,2020,2021,2022
./bin/tests/system/nzd2nzf/clean.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/nzd2nzf/ns1/added.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/nzd2nzf/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/nzd2nzf/prereq.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/nzd2nzf/setup.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/nzd2nzf/tests.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/org.isc.bind.system SH 2010,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/org.isc.bind.system.plist X 2010,2018,2019,2020,2021,2022
./bin/tests/system/packet.pl PERL 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/parallel.sh SH 2019,2020,2021,2022
./bin/tests/system/pending/clean.sh SH 2009,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/pending/ns1/root.db.in ZONE 2009,2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/ns1/sign.sh SH 2009,2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/ns2/example.com.db.in ZONE 2009,2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/ns2/example.db.in ZONE 2009,2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/ns2/forgery.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/pending/ns2/sign.sh SH 2009,2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/ns3/hostile.db ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/ns3/mail.example.db ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/pending/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/pending/prereq.sh SH 2009,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/setup.sh SH 2009,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/tests.sh SH 2009,2010,2012,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/Makefile.in MAKE 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/clean.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/input X 2014,2015,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/inputb X 2014,2015,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/pipelined/ns1/root.db ZONE 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/ns2/examplea.db ZONE 2014,2015,2016,2018,2019,2020,2021,2022
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./bin/tests/system/pipelined/ns3/exampleb.db ZONE 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/ns3/named.args X 2014,2015,2018,2019,2020,2021,2022

./bin/tests/system/pipelined/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/pipelined/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/pipelined/pipequeries.c C 2014,2015,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/ref X 2014,2015,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/refb X 2014,2015,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/setup.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/tests.sh SH 2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11/2037-pk11_numbits-crash-test.pkt X 2020,2021,2022
./bin/tests/system/pkcs11/clean.sh SH 2010,2012,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11/ns1/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11/ns1/named.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/pkcs11/setup.sh SH 2010,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11/tests.sh SH 2010,2012,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11/usepkcs11 X 2010,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11ssl/clean.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11ssl/ns1/example.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11ssl/ns1/named.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/pkcs11ssl/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11ssl/setup.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11ssl/tests.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11ssl/usepkcs11 X 2014,2018,2019,2020,2021,2022
./bin/tests/system/reclimit/README TXT.BRIEF 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/reclimit/ans2/ans.pl PERL 2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/reclimit/ans4/ans.pl PERL 2018,2019,2020,2021,2022
./bin/tests/system/reclimit/ans7/ans.pl PERL 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/reclimit/clean.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/reclimit/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/reclimit/ns1/root.db ZONE 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/reclimit/ns3/hints.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/reclimit/ns3/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/reclimit/ns3/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/reclimit/ns3/named3.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/reclimit/ns3/named4.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/reclimit/prereq.sh SH 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/reclimit/setup.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/reclimit/tests.sh SH 2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/redirect/clean.sh SH 2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/conf/bad1.conf CONF-C 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/conf/bad2.conf CONF-C 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/conf/bad3.conf CONF-C 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/conf/good1.conf CONF-C 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/conf/good2.conf CONF-C 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/conf/good3.conf CONF-C 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/conf/good4.conf CONF-C 2011,2016,2018,2019,2020,2021,2022
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./bin/tests/system/redirect/ns1/redirect.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns1/root.db ZONE 2011,2016,2018,2019,2020,2021,2022

./bin/tests/system/redirect/ns1/sign.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns2/example.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
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./bin/tests/system/redirect/ns3/root.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns3/sign.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns4/example.db.in ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns4/root.hint ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/setup.sh SH 2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/tests.sh SH 2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ans2/ans.pl PERL 2000,2001,2004,2007,2009,2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ans3/ans.pl PERL 2000,2001,2004,2007,2009,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ans8/ans.pl PERL 2017,2018,2019,2020,2021,2022
./bin/tests/system/resolver/clean.sh SH 2008,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/resolver/ns4/broken.db ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns4/child.server.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns4/moves.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns4/named.noaa TXT.BRIEF 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns4/root.db ZONE 2010,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns4/sourcens.db ZONE 2020,2021,2022
./bin/tests/system/resolver/ns4/tld1.db ZONE 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns4/tld2.db ZONE 2012,2014,2016,2018,2019,2020,2021,2022
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./bin/tests/system/resolver/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns5/root.hint ZONE 2010,2016,2018,2019,2020,2021,2022
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./bin/tests/system/resolver/ns6/delegation-only.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns6/ds.example.net.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns6/example.net.db.in ZONE 2010,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns6/keygen.sh SH 2010,2012,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns6/moves.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns6/no-edns-version.tld.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns6/root.db ZONE 2010,2011,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns6/targetns.db ZONE 2020,2021,2022
./bin/tests/system/resolver/ns6/to-be-removed.tld.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns7/all-cnames.db ZONE 2014,2016,2018,2019,2020,2021,2022
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./bin/tests/system/resolver/ns7/named.args X 2011,2012,2014,2018,2019,2020,2021,2022

./bin/tests/system/resolver/ns7/named1.conf.in CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/resolver/prereq.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/setup.sh SH 2010,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/tests.sh SH
2000,2001,2004,2007,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/rndc/Makefile.in MAKE 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rndc/clean.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/rndc/gencheck.c C 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rndc/ns2/incl.db ZONE 2013,2016,2018,2019,2020,2021,2022
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./bin/tests/system/rndc/ns2/secondkey.conf CONF-C 2012,2013,2016,2018,2019,2020,2021,2022
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./bin/tests/system/rndc/ns4/named.conf.in CONF-C 2013,2014,2015,2016,2018,2019,2020,2021,2022
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./bin/tests/system/rootkeysentinel/clean.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/ns1/root.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/ns1/sign.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/ns2/example.db.in ZONE 2018,2019,2020,2021,2022
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./bin/tests/system/rootkeysentinel/ns2/sign.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/ns3/hint.db ZONE 2018,2019,2020,2021,2022
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./bin/tests/system/rootkeysentinel/ns4/hint.db ZONE 2018,2019,2020,2021,2022
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./bin/tests/system/rootkeysentinel/prereq.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/tests.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/rpz/README TXT.BRIEF 2019,2020,2021,2022
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./bin/tests/system/rpz/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns1/root.db ZONE 2011,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns2/base-tld2s.db ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns2/bl.tld2.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns2/blv2.tld2.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns2/blv3.tld2.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
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./bin/tests/system/rpz/ns3/broken.db.in ZONE 2019,2020,2021,2022

./bin/tests/system/rpz/ns3/crash1 X 2011,2013,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns3/crash2 X 2011,2012,2013,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns3/hints ZONE 2011,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns3/manual-update-rpz-2.db.in ZONE 2019,2020,2021,2022
./bin/tests/system/rpz/ns3/manual-update-rpz.db.in ZONE 2019,2020,2021,2022
./bin/tests/system/rpz/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/rpz/ns4/tld4.db ZONE 2011,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns5/empty.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns5/hints ZONE 2011,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns5/named.args X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns5/tld5.db ZONE 2013,2016,2018,2019,2020,2021,2022
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./bin/tests/system/rpz/ns9/hints ZONE 2019,2020,2021,2022
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./bin/tests/system/rpz/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/qperf.sh SH 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/setup.sh SH 2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
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./bin/tests/system/rpz/test2 ZONE 2011,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/test3 ZONE 2011,2013,2016,2018,2019,2020,2021,2022
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./bin/tests/system/rpz/test6 ZONE 2013,2016,2018,2019,2020,2021,2022
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./bin/tests/system/rpzrecurse/README TXT.BRIEF 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ans5/ans.pl PERL 2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/clean.sh SH 2015,2016,2018,2019,2020,2021,2022
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./bin/tests/system/rpzrecurse/ns1/root.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns1/test1.example.net.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns1/test2.example.net.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.clientip1 ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.clientip2 ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.clientip21 ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.given ZONE 2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.log1 ZONE 2015,2016,2018,2019,2020,2021,2022

./bin/tests/system/rpzrecurse/ns2/db.log2 ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.log3 ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.passthru ZONE 2020,2021,2022
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./bin/tests/system/rpzrecurse/ns2/db.wildcard2a ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.wildcard2b ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.wildcard3 ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/named.clientip.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/named.clientip2.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/named.conf.header.in CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/named.default.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/named.log.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/named.wildcard1.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/named.wildcard2.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/named.wildcard3.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/named.wildcard4.conf CONF-C 2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/root.hint ZONE 2015,2016,2018,2019,2020,2021,2022
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./bin/tests/system/rpzrecurse/ns3/named1.conf.in CONF-C 2016,2018,2019,2020,2021,2022
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./bin/tests/system/rpzrecurse/ns3/policy.db ZONE 2016,2018,2019,2020,2021,2022
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./bin/tests/system/rpzrecurse/testgen.pl PERL 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/tests.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrchecker/classlist.good X 2013,2018,2019,2020,2021,2022
./bin/tests/system/rrchecker/clean.sh SH 2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/rrchecker/privatelist.good X 2013,2018,2019,2020,2021,2022
./bin/tests/system/rrchecker/tests.sh SH 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/rrchecker/typelist.good X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/rrl/broken.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/clean.sh SH 2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns1/root.db ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns2/hints ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns2/tld2.db ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns3/hints ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns3/tld3.db ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns4/hints ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns4/tld4.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/setup.sh SH 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/tests.sh SH 2012,2013,2015,2016,2018,2019,2020,2021,2022

./bin/tests/system/rrsetorder/clean.sh SH 2006,2007,2008,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.fixed.good X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good1 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good10 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good11 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good12 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good13 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good14 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good15 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good16 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good17 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good18 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good19 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good2 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good20 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good21 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good22 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good23 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good24 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good3 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good4 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good5 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good6 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good7 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good8 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good9 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/ns1/root.db ZONE 2006,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/tests.sh SH 2006,2007,2008,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/Makefile.in MAKE 2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/README.md TXT.BRIEF 2021,2022
./bin/tests/system/rsabigexponent/bigkey.c C 2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/clean.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/conf/bad01.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/conf/bad02.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/conf/bad03.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/conf/good01.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/conf/good02.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/conf/good03.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
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./bin/tests/system/rsabigexponent/ns1/root.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns1/sign.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/Xexample.+005+05896.key X 2012,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/Xexample.+005+05896.private X 2012,2018,2019,2020,2021,2022

./bin/tests/system/rsabigexponent/ns2/Xexample.+005+51829.key X 2012,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/Xexample.+005+51829.private X 2012,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/dsset-example.in X 2012,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/example.db.bad ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/example.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/sign.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/prereq.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/setup.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/tests.sh SH 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/run.gdb X 2019,2020,2021,2022
./bin/tests/system/run.sh SH 2000,2001,2004,2007,2010,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/runall.sh SH 2000,2001,2004,2007,2010,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/runsequential.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/runtime/README TXT.BRIEF 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/runtime/clean.sh SH 2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/runtime/ns2/named-alt1.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/runtime/ns2/named-alt2.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/runtime/ns2/named-alt3.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/runtime/ns2/named-alt4.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/runtime/ns2/named-alt5.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/runtime/ns2/named-alt6.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/runtime/ns2/named-alt9.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/runtime/ns2/named1.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/runtime/setup.sh SH 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/runtime/tests.sh SH 2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/send.pl PERL 2001,2004,2007,2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/setup.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/sfcache/README TXT.BRIEF 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/sfcache/clean.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/sfcache/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/sfcache/ns1/root.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/sfcache/ns1/sign.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/sfcache/ns2/example.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/sfcache/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/sfcache/ns2/sign.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/sfcache/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/sfcache/ns5/trusted.conf.bad CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/sfcache/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/sfcache/setup.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/sfcache/tests.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/smartsign/child.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/smartsign/clean.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/smartsign/parent.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/smartsign/prereq.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/smartsign/setup.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/smartsign/tests.sh SH 2010,2011,2012,2014,2016,2017,2018,2019,2020,2021,2022

./bin/tests/system/sortlist/clean.sh SH 2000,2001,2004,2007,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/sortlist/ns1/example.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/sortlist/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/sortlist/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/sortlist/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/sortlist/tests.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/spf/clean.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/spf/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/spf/ns1/spf.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/spf/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/spf/tests.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/start.pl SH
2001,2004,2005,2006,2007,2008,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/start.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/clean.sh SH 2010,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad01.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad02.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad03.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad04.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad05.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad06.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad07.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad08.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad09.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad10.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad11.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/good01.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/good02.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/good03.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/good04.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/good05.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/knowngood.dig.out.rec X 2010,2013,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns1/root.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns2/named.conf.in CONF-C 2010,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns3/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns3/example.org.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns3/named.conf.in CONF-C 2010,2013,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns3/sign.sh SH 2010,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns3/undelegated.db.in ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns4/example.com.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns4/example.info.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns4/example.org.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns4/sign.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns4/sub.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/setup.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022

./bin/tests/system/staticstub/tests.sh SH 2010,2011,2012,2013,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/statistics/ans4/ans.pl PERL 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/statistics/clean.sh SH 2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/statistics/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/statistics/ns1/root.db ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/statistics/ns1/zone.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/statistics/ns2/example.db ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/statistics/ns2/internal.db ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/statistics/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/statistics/ns3/internal.db ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/statistics/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/statistics/ns3/root.hint ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/statistics/prereq.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/statistics/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/statistics/tests.sh SH 2012,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/clean.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/fetch.pl PERL 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/ns2/example.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/statschannel/prereq.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/server-json.pl PERL 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/server-xml.pl PERL 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/statschannel/tests.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/traffic-json.pl PERL 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/traffic-xml.pl PERL 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/traffic.expect.1 X 2015,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/traffic.expect.2 X 2015,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/traffic.expect.4 X 2015,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/traffic.expect.5 X 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/traffic.expect.6 X 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/stop.pl SH 2001,2004,2005,2006,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/stop.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/stopall.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/stress/clean.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/stress/ns1/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/stress/ns2/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/stress/ns3/named.conf CONF-C 2000,2001,2004,2007,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/stress/ns4/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/stress/prereq.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/stress/setup.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/stress/setup.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/stress/tests.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/stress/update.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/stub/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/stub/knowngood.dig.out.norec X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/stub/knowngood.dig.out.rec X 2000,2001,2013,2018,2019,2020,2021,2022
./bin/tests/system/stub/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/stub/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/stub/ns2/child.example.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/stub/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/stub/ns3/example.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
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./bin/tests/system/stub/ns4/example.db ZONE 2020,2021,2022
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./bin/tests/system/stub/ns5/named.conf.in CONF-C 2020,2021,2022
./bin/tests/system/stub/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/stub/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/tcp/ans6/ans.py PYTHON 2019,2020,2021,2022
./bin/tests/system/tcp/clean.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/tcp/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/tcp/ns1/root.db ZONE 2014,2016,2018,2019,2020,2021,2022
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./bin/tests/system/tcp/ns5/named.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/tcp/prereq.sh SH 2019,2020,2021,2022
./bin/tests/system/tcp/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/tcp/tests.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/testcrypto.sh SH 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/testsock.pl PERL 2000,2001,2004,2007,2010,2011,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/testsock6.pl PERL 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/testsummary.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/tkey/Makefile.in MAKE
2001,2002,2004,2007,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/tkey/clean.sh SH 2001,2004,2007,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/tkey/keycreate.c C
2001,2004,2005,2007,2009,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/tkey/keydelete.c C
2001,2004,2005,2007,2009,2010,2011,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/tkey/ns1/example.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/tkey/ns1/named.conf.in CONF-C
2001,2004,2007,2009,2011,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/tkey/ns1/setup.sh SH 2001,2004,2007,2009,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/tkey/prereq.sh SH 2001,2004,2006,2007,2009,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/tkey/setup.sh SH 2001,2004,2007,2009,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/tkey/tests.sh SH 2001,2004,2007,2009,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/tsig/ans2/ans.pl PERL 2020,2021,2022
./bin/tests/system/tsig/badlocation X 2020,2021,2022
./bin/tests/system/tsig/badtime X 2020,2021,2022
./bin/tests/system/tsig/clean.sh SH 2005,2006,2007,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/tsig/ns1/example.db ZONE 2005,2006,2007,2009,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/tsig/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/tsig/prereq.sh SH 2020,2021,2022
./bin/tests/system/tsig/setup.sh SH 2016,2018,2019,2020,2021,2022

./bin/tests/system/tsig/tests.sh SH 2005,2006,2007,2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/authsock.pl PERL 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/clean.sh SH 2010,2011,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/ns1/administrator.ccache X 2010,2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/ns1/dns.keytab X 2010,2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/ns1/example.nil.db.in X 2011,2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/ns1/testdenied.ccache X 2010,2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/prereq.sh SH 2010,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/setup.sh SH 2010,2011,2012,2014,2016,2018,2019,2020,2021,2022
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./bin/tests/system/unknown/clean.sh SH
2000,2001,2004,2007,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/large.out X 2012,2018,2019,2020,2021,2022
./bin/tests/system/unknown/ns1/broken1.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
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./bin/tests/system/unknown/ns1/broken5.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/ns1/class10.hints ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/ns1/example-class10.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
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./bin/tests/system/unknown/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/unknown/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/unknown/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/setup.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/zones/nan.bad ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/upforwd/ans4/ans.pl PERL 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/upforwd/clean.sh SH 2000,2001,2004,2007,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/upforwd/knowngood.after1 X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/upforwd/knowngood.after2 X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/upforwd/knowngood.before X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/upforwd/knowngood.ns2.before X 2000,2001,2018,2019,2020,2021,2022
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./bin/tests/system/upforwd/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/upforwd/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/upforwd/ns3/nomaster.db ZONE 2011,2016,2018,2019,2020,2021,2022
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./bin/tests/system/upforwd/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/verify/clean.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/verify/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022

./bin/tests/system/verify/setup.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
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./bin/tests/system/verify/zones/genzones.sh SH 2012,2013,2014,2016,2018,2019,2020,2021,2022
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./bin/tests/system/views/clean.sh SH
2000,2001,2004,2005,2007,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/views/ns2/1.10.in-addr.arpa.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/ns2/clone.db ZONE 2013,2016,2018,2019,2020,2021,2022
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./bin/tests/system/views/ns2/example2.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/ns2/external/inline.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/ns2/internal.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/ns2/internal/inline.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/ns2/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/views/ns2/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/views/ns3/child.clone.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/ns3/internal.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/ns3/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/views/ns3/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/views/ns5/child.clone.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/views/setup.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022
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./bin/tests/system/wildcard/clean.sh SH 2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/wildcard/ns1/dlv.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
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./bin/tests/system/wildcard/ns1/nsec3.db.in ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/wildcard/ns1/private.nsec.db.in ZONE 2012,2013,2016,2018,2019,2020,2021,2022
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./bin/tests/system/wildcard/ns1/root.db.in ZONE 2012,2013,2016,2018,2019,2020,2021,2022
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./bin/tests/system/wildcard/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/wildcard/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/wildcard/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/wildcard/setup.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/wildcard/tests.sh SH 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/bigkey.dsp.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/bigkey.dsw X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/bigkey.mak.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/bigkey.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022
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./bin/tests/system/win32/bigkey.vcxproj.user X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/feature-test.dsp.in X 2016,2018,2019,2020,2021,2022

./bin/tests/system/win32/feature-test.dsw X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/feature-test.mak.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/feature-test.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/feature-test.vcxproj.in X 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/win32/feature-test.vcxproj.user X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/gencheck.dsp.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/gencheck.dsw X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/gencheck.mak.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/gencheck.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/gencheck.vcxproj.in X 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/win32/gencheck.vcxproj.user X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keycreate.dsp.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keycreate.dsw X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keycreate.mak.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keycreate.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022
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./bin/tests/system/win32/keycreate.vcxproj.user X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keydelete.dsp.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keydelete.dsw X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keydelete.mak.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keydelete.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keydelete.vcxproj.in X 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/win32/keydelete.vcxproj.user X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/lwtest.dsp.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/lwtest.dsw X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/lwtest.mak.in X 2016,2018,2019,2020,2021,2022
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./bin/tests/system/win32/lwtest.vcxproj.in X 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/win32/lwtest.vcxproj.user X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/pipequeries.dsp.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/pipequeries.dsw X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/pipequeries.mak.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/pipequeries.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/pipequeries.vcxproj.in X 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/win32/pipequeries.vcxproj.user X 2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ans5/badkeydata X 2011,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ans5/badmessageid X 2020,2021,2022
./bin/tests/system/xfer/ans5/goodaxfr X 2011,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ans5/partial X 2011,2018,2019,2020,2021,2022
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./bin/tests/system/xfer/ans5/unsigned X 2011,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ans5/wrongkey X 2011,2018,2019,2020,2021,2022
./bin/tests/system/xfer/clean.sh SH
2000,2001,2004,2007,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/dig1.good X
2000,2001,2003,2004,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/xfer/dig2.good X
2000,2001,2003,2004,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022

./bin/tests/system/xfer/knowngood.mapped X 2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns1/axfr-too-big.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns1/ixfr-too-big.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns2/mapped.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns2/slave.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns4/named.conf.base CONF-C 2011,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns4/root.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns8/example.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns8/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/xfer/prereq.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/setup.sh SH
2001,2002,2004,2007,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/tests.sh SH
2000,2001,2004,2005,2007,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/xferquota/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/xferquota/ns1/changing1.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/xferquota/ns1/changing2.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
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./bin/tests/system/xferquota/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/xferquota/ns2/example.db ZONE
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./bin/tests/system/xferquota/setup.pl PERL 2000,2001,2004,2007,2011,2012,2016,2018,2019,2020,2021,2022
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./bin/tests/system/xferquota/tests.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/zero/ans5/ans.pl PERL 2016,2018,2019,2020,2021,2022
./bin/tests/system/zero/clean.sh SH 2013,2014,2015,2016,2018,2019,2020,2021,2022
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./bin/tests/system/zero/ns1/root.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/zero/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/zero/ns2/tld.db ZONE 2016,2018,2019,2020,2021,2022
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./bin/tests/system/zero/ns3/root.hint ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/zero/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/zero/ns4/one.tld.db ZONE 2016,2018,2019,2020,2021,2022
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./bin/tests/system/zero/setup.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/zero/tests.sh SH 2013,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/a.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/aaaa.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/bigserial.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/clean.sh SH 2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022

./bin/tests/system/zonechecks/cname.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/dname.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/noaddress.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022
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./bin/tests/system/zonechecks/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/zonechecks/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/setup.sh SH 2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/tests.sh SH 2004,2007,2009,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/testdata/wire/wire_test.data X 1999,2000,2001,2018,2019,2020,2021,2022
./bin/tests/testdata/wire/wire_test.data2 X 1999,2000,2001,2018,2019,2020,2021,2022
./bin/tests/testdata/wire/wire_test.data3 X 1999,2000,2001,2018,2019,2020,2021,2022
./bin/tests/testdata/wire/wire_test.data4 X 1999,2000,2001,2018,2019,2020,2021,2022
./bin/tests/virtual-time/Makefile.in MAKE 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/README TXT.BRIEF 2010,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/autosign-ksk/clean.sh SH 2010,2012,2015,2016,2018,2019,2020,2021,2022
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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '
'))"/>
  <xsl:text>
</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '
')"/>
  <xsl:if test="translate($rest, '	 ', '')">
    <xsl:call-template name="isc.copyright.format">
     <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
   <xsl:with-param name="text">
    <xsl:for-each select="db:book/db:info/db:copyright | db:refentry/db:docinfo/db:copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
   <xsl:with-param name="years" select="db:year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="db:holder"/>
      <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of
 select="$isc.copyright.text"/>
   </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
```

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1.284 prometheus-common 0.37.0

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1.285 xdg-go-stringprep 1.0.3

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1.286 scram 1.1.1

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1.287 html5lib 1.1

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1.288 packaging 21.3

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1.289 pep517 0.12.0

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1.290 iniconfig 1.1.1

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1.291 zap 1.23.0

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1.292 google-go-cmp 0.5.9

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1.293 aws-sdk-go 1.43.21

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1.294 360entsecgroup-skylar-excelize 2.4.0

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1.295 xuri-efp 0.0.0-20210322160811-ab561f5b45e3

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1.296 readline 4.1

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

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1.297 sysfsutils 1.2.0

1.297.1 Available under license :

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plus the scripts used to control compilation
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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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to recompile the application
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1.298 protobuf 3.20.3

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1.299 prometheus-client 1.13.0

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1.300 libtirpc 1.3.3

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1.302 kubernetes-klog 2.80.1

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1.303 vault-sdk 0.4.1

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---
layout: docs
page_title: Frequently Asked Questions (FAQ)
description: An overview of license.

License FAQ

This FAQ section is for license changes and updates introduced for Vault Enterprise.
- [Q: How do the license termination changes affect upgrades?](#q-how-do-the-license-termination-changes-affect-upgrades)
- [Q: What impact on upgrades do the license termination behavior changes pose?](#q-what-impact-on-upgrades-do-the-license-termination-behavior-changes-pose)
- [Q: Will these license changes impact HCP Vault?](#q-will-these-license-changes-impact-hcp-vault)
- [Q: Do these license changes impact all Vault customers/licenses?](#q-do-these-license-changes-impact-all-vault-customers-licenses)
- [Q: What is the product behavior change introduced by the licensing changes?](#q-what-is-the-product-behavior-change-introduced-by-the-licensing-changes)
- [Q: How will Vault behave at startup when a license expires or terminates?](#q-how-will-vault-behave-at-startup-when-a-license-expires-or-terminates)
-
[Q: What is the impact on evaluation licenses due to this change?](#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change)
- [Q: Are there any changes to existing methods for manual license loading (API or CLI)?](#q-are-there-any-changes-to-existing-methods-for-manual-license-loading-api-or-cli)
- [Q: Is there a grace period when evaluation licenses expire?](#q-is-there-a-grace-period-when-evaluation-licenses-expire)
- [Q: Does this affect clients?](#q-does-this-affect-clients)
- [Q: Are the license files locked to a specific cluster?](#q-are-the-license-files-locked-to-a-specific-cluster)
- [Q: Will a EULA check happen every time a Vault restarts?](#q-will-a-eula-check-happen-every-time-a-vault-restarts)
- [Q: What scenarios should a customer plan for due to these license changes?](#q-what-scenarios-should-a-customer-plan-for-due-to-these-license-changes)
- [Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI
flow to the license on disk flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-license-as-applied-via-the-cli-flow-to-the-license-on-disk-flow)
- [Q: What is the path for customers who want to downgrade/rollback from Vault 1.11 or later (auto-loaded license mandatory) to a pre-Vault 1.11 (auto-loading not mandatory, stored license supported)?](#q-what-is-the-path-for-customers-who-want-to-downgrade-rollback-from-vault-1-11-or-later-auto-loaded-license-mandatory-to-a-pre-vault-1-11-auto-loading-not-mandatory-stored-license-supported)
- [Q: Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)
- [Q: What are the steps to upgrade from one autoloaded license to another autoloaded license?](#q-what-are-the-

steps-to-upgrade-from-one-autoloaded-license-to-another-autoloaded-license)
- [Q: What are the Vault ADP module licensing changes introduced
in 1.8?](#q-what-are-the-vault-adp-module-licensing-changes-introduced-in-1-8)
- [Q: How can the new ADP modules be purchased and what features are customer entitled to as part of that purchase?](#q-how-can-the-new-adp-modules-be-purchased-and-what-features-are-customer-entitled-to-as-part-of-that-purchase)
- [Q: What is the impact to customers based on these ADP module licensing changes?](#q-what-is-the-impact-to-customers-based-on-these-adp-module-licensing-changes)

Q: What is the product behavior change introduced by the licensing changes?

Per the [feature deprecation plans](/docs/deprecation), Vault will no longer support licenses in storage. An [auto-loaded license](/docs/enterprise/license/autoloading) must be used instead. If you are using stored licenses, you must migrate to auto-loaded licenses prior to upgrading to Vault 1.11

Vault 1.12 will also introduce different termination behavior for evaluation licenses versus non-evaluation licenses. An [evaluation](https://www.hashicorp.com/products/vault/trial)
license will include a 30-day trial period after which a running Vault server will terminate. Vault servers using a non-evaluation license will not terminate.

Q: How do the license termination changes affect upgrades?
Vault 1.12 will introduce changes to the license termination behavior. Upgrades when using expired licenses will now be limited.
Vault will not startup if the build date of the binary is _after_ the expiration date of a license. License expiration date and binary build date compatibility can be verified using the [Check for Autoloaded License](/docs/commands/operator/diagnose#check-for-autoloaded-license) check performed by the `vault operator diagnose` command.
The build date of a binary can also be found using the [vault version](/docs/commands/version#version) command.

A user can expect the following to occur based on the following scenarios:

Evaluation or non-evaluation license is valid:
Vault will start normally

**Evaluation
or non-evaluation license is expired, binary build date _before_ license expiry date:**
Vault will start normally

Evaluation or non-evaluation license is expired, binary build date _after_ license expiry date:
Vault will not start

Evaluation license is terminated:
Vault will not start independent of the binarys build date

Non-evaluation license is terminated, binary build date _before_ license expiry date:
Vault will start normally

Non-evaluation license is terminated, binary build date _after_ license expiry date:

Vault will not start

The Vault support team can issue you a temporary evaluation license to allow for security upgrades if your license has expired.

Q: Will these license changes impact HCP Vault?

No, these changes will not impact HCP Vault.

Q: Do these license changes impact all Vault customers/licenses?

Customer/licenses	Impacted?
ENT binaries (evaluation or non-evaluation downloaded from [releases.hashicorp.com](https://releases.hashicorp.com/vault/))	Yes
Open-Source (OSS)	No

Q: What is the product behavior change introduced by the licensing changes?

With Vault 1.11, the use of an [auto-loaded license](/docs/enterprise/license/autoloading) is required for Vault to start successfully.

Q: How will Vault behave at startup when a license expires or terminates?

When a license expires, Vault continues to function until the license terminates. This behavior exists today and remains unchanged in Vault 1.11. The grace period, defined as the time between license expiration and license termination, is one day for evaluation licenses
(as of 1.8), and ten years for non-evaluation licenses.
Customers must provide a valid license before the grace period expires. This license is required to be [auto-loaded](/docs/enterprise/license/autoloading). When license terminates (upon grace period expiry), Vault will seal itself and customers will need a valid license in order to successfully bring-up Vault. If a valid license was not installed after license expiry, customers will need to provide one, and this license will need to be auto-loaded.

Vault 1.12 changes the license expiration and termination behavior. Evaluation licenses include a 30-day trial period after which a running Vault server will terminate. Non-evaluation licenses, however, will no longer terminate. When a non-evaluation license expires, Vault will continue to function but upgrades will be limited. The build date of the upgrade binary must be before the expiration date of the license.
Vault will not start when attempting to use an expired license and binary
with a build date _after_ the license expiration date. Attempting to [reload](/api-docs/system/config-reload#reload-license-file) an expired license will result in an error if the build date of the running Vault server is _after_ the license expiration date.

License expiration date and binary build date compatibility can be verified using the [Check for Autoloaded License](/docs/commands/operator/diagnose#check-for-autoloaded-license) check performed by the `vault operator diagnose` command. The build date of a binary can also be found using the [vault version](/docs/commands/version#version) command.

Q: What is the impact on evaluation licenses due to this change?

As of Vault 1.8, any Vault cluster deployed must have a valid [auto-loaded](/docs/enterprise/license/autoloading) license.

Vault 1.12 introduces [expiration and termination behavior changes](#q-how-will-vault-behave-at-startup-when-a-license-expires-or-terminates) for non-evaluation licenses. Evaluation licenses will
continue to have a 1-day grace period upon license expiry after which they will terminate. Vault will seal itself and shutdown once an evaluation license terminates.

Q: Are there any changes to existing methods for manual license loading (API or CLI)?

The [`/sys/license`](/api-docs/v1.10.x/system/license#install-license) and [`/sys/license/signed`](/api-docs/v1.10.x/system/license#read-signed-license) endpoints have been removed as of Vault 1.11. With that said, it is no longer possible to provide a license via the `/sys/license` endpoint. License [auto-loading](/docs/enterprise/license/autoloading) must be used instead.
The [`/sys/config/reload/license`](/api-docs/system/config-reload#reload-license-file) endpoint can be used to reload an auto-loaded license provided as a path via an environment variable or configuration.

Q: Is there a grace period when evaluation licenses expire?

Evaluation licenses have a 1-day grace period. The grace period is the time until the license
expires. Upon expiration, Vault will seal and will require a valid license to unseal and function properly.

Q: Are the license files locked to a specific cluster?

The changes to licenses apply to all nodes in a cluster. The license files are not locked to a cluster, but are independently applied to the appropriate clusters.

Q: Will a EULA check happen every time a Vault restarts?

Yes, starting with Vault 1.8, ENT binaries will be subjected to a EULA check. The release of Vault 1.8 introduces the EULA check for evaluation licenses (non-evaluation licenses are evaluated with a EULA check during contractual agreement) .
Although the agreement to a EULA occurs only once (when the user receives their license), Vault will check for the presence of a valid license every time a node is restarted.

Starting Vault 1.11, when customers deploy new Vault clusters, or upgrade existing Vault clusters, a valid [auto-loaded](/docs/enterprise/license/autoloading) license must exist for the
upgrade to be successful.

Q: What scenarios should a customer plan for due to these license changes?

- **New Cluster Deployment**: When a customer deploys new clusters to Vault 1.11 or later, a valid license must exist to successfully deploy. This valid license must be on-disk ([auto-loaded](/docs/enterprise/license/autoloading)).

- **Eventual Migration**: Vault 1.11 removes support for in-storage licenses. Migrating to an auto-loaded license is

required for Vault to start successfully using version 1.11 or greater. Pre-existing license storage entries will be automatically removed from storage upon startup.

Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

If a Vault cluster using a stored license is planned to be upgraded to Vault 1.11 or greater, the operator must migrate to using an auto-loaded license. The [`vault license get -signed`](/docs/v1.10.x/commands/license/get) command (or underlying [`/sys/license/signed`](/api-docs/v1.10.x/system/license#read-signed-license) endpoint) can be used to retrieve the license from storage in a running cluster.
It is not necessary to remove the stored license entry. That will occur automatically upon startup in Vault 1.11 or greater. Prior to completing the [recommended upgrade steps](/docs/upgrading), perform the following to ensure your license is properly configured:

1. Use the command `vault license get -signed` to retrieve the license from storage of your running cluster.
2. Put the license on disk
3. Configure license auto-loading by specifying the [`license_path`](/docs/configuration#license_path) config option or setting the [`VAULT_LICENSE`](/docs/commands#vault_license) or [`VAULT_LICENSE_PATH`](o/docs/commands#vault_license_path) environment variable.

Q: What is the path for customers who want to downgrade/rollback from Vault 1.11 or later (auto-loaded license mandatory) to a pre-Vault 1.11 (auto-loading not mandatory, stored license supported)?

The downgrade procedure remains the same for Vault customers who are currently on Vault 1.11 or later, have a license installed via auto-loading, and would like to downgrade their cluster to a pre-1.11 version. Please refer to the [upgrade procedures](https://learn.hashicorp.com/tutorials/vault/sop-upgrade?in=vault/standard-procedures) that remind the customers that they must take a snapshot before the upgrade. Customers will need to restore their version from the snapshot, apply the pre-1.11 enterprise binary version they wish to roll back, and bring up the clusters.

Q: Is there a limited time for support of licenses that are in storage?

The support of licenses installed by alternative means often leads to difficulties providing the appropriate support. To provide the support expected by our customers, as we have announced in [Vault feature deprecations and plans](/docs/deprecation) we are removing support for licenses in storage with Vault 1.11. This implies licensing endpoints that deal with licenses in storage will be removed, and Vault will no longer check for valid licenses in storage. This change requires that all customers have [auto-loaded](/docs/enterprise/license/autoloading) licenses to upgrade to 1.11(+) successfully.

Q: What are the steps to upgrade from one autoloaded license to another autoloaded license?

Follow these steps to migrate from one autoloaded license to another autoloaded license.

1. Use the [`vault license inspect`](/docs/commands/license/inspect) command to compare the new license against the output of the [`vault license get`](/docs/commands/license/get) command. This is to ensure that you have the correct license.
1. Backup the old license file in a safe location.
1. Replace the old license file on each Vault server with the new one.

1. Invoke the [reload command](/api-docs/system/config-reload#reload-license-file) on each individual Vault server, starting with the standbys
and doing the leader last. Invoking in this manner reduces possible disruptions if something was performed incorrectly with the above steps. You can either use the [reload command](/api-docs/system/config-reload#reload-license-file) or send a SIGHUP.
1. On each node, ensure that the new license is in use by using the [`vault license get`](/docs/commands/license/get) command and/or checking the logs.

ADP Licensing

This FAQ section is for the Advanced Data Protection (ADP) license changes introduced in Vault Enterprise 1.8.

Q: What are the Vault ADP module licensing changes introduced in 1.8?

As of Vault Enterprise 1.8, the functionality formerly sold as the Vault ADP module is now separated between two new modules:

ADP-KM includes:

- [Key Management Secrets Engine (KMSE)](/docs/secrets/key-management)
- [Key Management Interoperability (KMIP)](/docs/secrets/kmip)
- [MSSQL Transparent Data Encryption (TDE)](https://www.hashicorp.com/blog/enabling-transparent-data-encryption-for-microsoft-sql-with-vault)

ADP-Transform
includes:

- [Transform Secrets Engine (TSE)](/docs/secrets/transform)

Q: How can the new ADP modules be purchased and what features are customer entitled to as part of that purchase?

ADP-KM includes:

- This is the first Vault Enterprise module that can be purchased standalone. This means it can be purchased without the purchase of a Vault Enterprise Standard license.
- ADP-KM still requires a Vault Enterprise binary. The Vault Enterprise Standard license is automatically included with the ADP-KM module, but customers are contractually prohibited from using any features besides those in Vault OSS and ADP-KM (KMSE and KMIP).

ADP-Transform includes:

- This module cannot be purchased as a standalone. It requires a Vault Enterprise binary, and customers must purchase the base Vault Enterprise Standard license (at least) to use the corresponding Enterprise features.
- The ADP-Transform SKU can be applied as an add-on.
This workflow is similar to the consolidated ADP SKU.

Q: What is the impact to customers based on these ADP module licensing changes?

Customers need to be aware of the following as a result of these changes:

- **New customers** may choose to purchase either or both of these modules. The old (consolidated) module is not available to them as an option.
- **Existing customers** may continue with the consolidated Vault ADP module uninterrupted. They will only be converted to one or both new ADP modules the next time they make a change to their licensing details (i.e. contract change).

Enterprise Licenses

In versions 1.2.6, 1.3.9, 1.4.5, and 1.5.2, the enterprise licenses were not incorporated correctly into the build and we have issued patch releases (x.y.z.1) for enterprise customers containing the proper license. As the previous builds were both not working and causing confusion, we have removed the binaries.

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    With Secondary Licenses", as defined by
    the Mozilla Public License, v. 2.0.
{{#if this.licenseExpired}}
 <div class="license-banner-wrapper" data-test-license-banner data-test-license-banner-expired>
  <AlertBanner
    @bannerType="license"
    @type="danger"
    @title="License expired"
    @message="Your Vault license expired on {{date-format
      @expiry
      'MMM d, yyyy'
    }}. Add a new license to your configuration and restart Vault."
    @marginless={{true}}
  >
    <a
      href="https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license"
      target="_blank"
      rel="noreferrer noopener"
    >
      Read documentation
    </a>
  </AlertBanner>
 </div>
{{else if (lte this.licenseExpiringInDays 30)}}
 <div class="license-banner-wrapper" data-test-license-banner data-test-license-banner-warning>
  <AlertBanner
    @bannerType="license"
    @type="warning"
    @title="Vault license expiring"
    @message="Your Vault license will expire in {{this.licenseExpiringInDays}} days at {{date-format
       @expiry
      'hh:mm:ss a'
    }} on {{date-format @expiry 'MMM d, yyyy'}}. {{if
      @autoloaded
      'Add a new license to your configuration.'
      'Keep in mind that your next license will need to be autoloaded'
    }}"
    @marginless={{true}}
  >
    <a
      href="https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license"
      target="_blank"
```

```
      rel="noreferrer noopener"
    >
      Read documentation
    </a>
  </AlertBanner>
 </div>
{{/if}}
---
layout: docs
page_title: License Autoloading
description: An overview of license autoloading.
---

# License Autoloading

Prior to Vault 1.8, Vault Enterprise would be licensed using special binaries
that contained embedded licenses, or via a license written into Vault storage
using the [POST sys/license API](/api-docs/system/license#install-license).

As of Vault 1.8 those options still exist but are deprecated, and the recommended
mechanism for managing licenses is called License Autoloading. New clusters are
required to use the autoloading method.

License Autoloading can be done using one of these mechanisms, in decreasing order
of priority (i.e. `VAULT_LICENSE` takes precedence over `VAULT_LICENSE_PATH`, which
takes precedence over `license_path` in config.)

- [VAULT_LICENSE environment variable](/docs/commands#vault_license)
- [VAULT_LICENSE_PATH environment variable](/docs/commands#vault_license_path)
- [license_path in config](/docs/configuration#license_path)

Nodes within
 a cluster should be consistently licensed. All nodes in a cluster
should use autoloading, or none should. If autoloading is used, all nodes should
use the same license string. Warnings will be written to the log when there
are discrepancies.

If autoloading is used, any existing stored license will be ignored. The presence
of a stored license in conjunction with an autoloaded license will also result in
logged warnings, which may require a service restart to clear.
<LicenseInfo
 @startTime={{this.model.startTime}}
 @expirationTime={{this.model.expirationTime}}
 @licenseId={{this.model.licenseId}}
 @features={{this.model.features}}
 @autoloaded={{this.model.autoloaded}}
 @performanceStandbyCount={{this.model.performanceStandbyCount}}
/>
```

---
layout: docs
page_title: license - Command
description: |-
 The "license" command groups subcommands for interacting with Vault licenses.
---

license

The `license` command groups subcommands for interacting with Vault licenses

For more information, please see the [license documentation](/docs/enterprise/license)

Examples

Query current license in use by a node:

```shell-session
$ vault license get
Key                      Value
---                      -----
expiration_time          2022-05-17T23:59:59.999Z
features                 [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas Key Management Secrets Engine Automated Snapshots]
license_id               060d7820-fa59-f95c-832b-395db0aeb9ba
performance_standby_count    9999
start_time               2021-05-17T00:00:00Z
```

Query signed license string (only when
 using a deprecated stored license)

```shell-session
$ vault license get -signed
02MV4UU43BK5H...
```

Inspect a signed a license string:

```shell-session
$ vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
```

Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

License is valid

```

## Usage

```text
Usage: vault license <subcommand> [options] [args]

 # ...

Subcommands:
   get      Query Vault's license
   inspect  View the contents of a license string
```

For more information, examples, and usage about a subcommand, click on the name
of the subcommand in the sidebar.
variable "file_name" {}

output "license" {
 value = file(var.file_name)
}
---
layout: api
page_title: /sys/license/status - HTTP API
description: |-
 The `/sys/license/status` endpoint is used to view the license used in
 Vault.

`/sys/license/status`

~> **Enterprise Only** These endpoints require Vault Enterprise.

The `/sys/license/status` endpoint is used to view update the license used in
Vault.
```

License Status

This endpoint returns information about licensing. See [license autoloading](/docs/enterprise/license/autoloading) for additional background.

In the response:

- `autoloading_used` will be true if an autoloaded license was provided to the
 node, false otherwise. This should always be true from Vault 1.11.0 onward.
- `autoloaded` is the autoloaded license if autoloading_used is true.
- `persisted_autoload` is the autoloaded license the active node last wrote to
 storage; this is only used to detect inconsistently licensed nodes in the
 cluster. It cannot be used as a license itself.
- `stored` was used for the stored license prior
 to Vault 1.11.0. Stored licenses are no longer supported.

`autoloaded`, and `persisted_autoload` will both have the same structure.

Method	Path
`GET`	`/sys/license/status`

Sample Request

```shell-session
$ curl \
  --header "X-Vault-Token: ..." \
  http://127.0.0.1:8200/v1/sys/license/status
```

Sample Response

```json
{
 "data": {
   "autoloading_used": true,
   "autoloaded": {
     "expiration_time": "2022-05-17T23:59:59Z",
     "features": [
       "HSM",
       "Performance Replication",
       "DR Replication",
       "MFA",
       "Sentinel",
       "Seal Wrapping",
       "Control Groups",
       "Performance Standby",
```

```
      "Namespaces",
      "KMIP",
      "Entropy Augmentation",
      "Transform Secrets Engine",
      "Lease Count Quotas",
      "Key Management Secrets Engine",
      "Automated Snapshots"
    ],
    "license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
     "performance_standby_count": 9999,
    "start_time": "2021-05-17T00:00:00Z",
    "termination_time": "2031-05-17T23:59:59Z"
  },
  "persisted_autoload": {
    "expiration_time": "2022-05-17T23:59:59Z",
    "features": [
      "HSM",
      "Performance Replication",
      "DR Replication",
      "MFA",
      "Sentinel",
      "Seal Wrapping",
      "Control Groups",
      "Performance Standby",
      "Namespaces",
      "KMIP",
      "Entropy Augmentation",
      "Transform Secrets Engine",
      "Lease Count Quotas",
      "Key Management Secrets Engine",
      "Automated Snapshots"
    ],
    "license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
    "performance_standby_count": 9999,
    "start_time": "2021-05-17T00:00:00Z",
    "termination_time": "2031-05-17T23:59:59Z"
  }
 }
}
```
---
layout: docs
page_title: license inspect - Command
description: |-
 The "license inspect" command describes the contents of a signed license string.
---

license inspect

The `license inspect` command describes the contents of a signed license string.

Examples

Describe license in the environment (either `VAULT_LICENSE` for a raw value
or `VAULT_LICENSE_PATH` for the path to a file containing the value):

```shell-session
$ vault license inspect
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
Termination Time: 2031-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-
432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-
17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-
policy","advanced-data-protection"]},"features":["HSM","Performance
 Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance
Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key
Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

License is valid
```

Describe license at given path:

```shell-session
$ vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
Termination Time: 2031-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-
432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-
17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-
policy","advanced-data-protection"]},"features":["HSM","Performance
```

Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

License is valid
```

## Usage

The following flags are available in addition to the [standard set of flags](/docs/commands) included on all commands.

### Command Options

- `-installation-id` `(string: "")` - Installation ID to validate the license against
<PageHeader as |p|>
 <p.levelLeft>
  <h1 class="title is-3">License</h1>
 </p.levelLeft>
</PageHeader>

<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
 <span class="title is-5">Details</span>
 <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
  <InfoTableRow @label="License ID" @value={{@licenseId}} data-test-detail-row />
  <InfoTableRow @label="Valid from" @value={{@startTime}} data-test-detail-row>
   {{date-format @startTime "MMM dd, yyyy hh:mm:ss a"}}
   to
   {{date-format @expirationTime "MMM dd, yyyy hh:mm:ss a"}}
  </InfoTableRow>
  <InfoTableRow @label="License state" @value={{"Autoloaded"}} data-test-detail-row />
 </div>
</section>

<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
 <span class="title is-5">Features</span>
 <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
  {{#each this.featuresInfo as |info|}}
   <InfoTableRow @label={{info.name}}
 @value={{if info.active "Active" "Not Active"}} data-test-feature-row>
    {{#if info.active}}
     <Icon @name="check-circle" class="icon-true" />
     <span data-test-feature-status>
      Active
      {{#if info.count}}&mdash; {{info.count}} standby nodes allotted{{/if}}
     </span>
    {{else}}
     <Icon @name="x-circle" class="icon-false" />
```

<span data-test-feature-status>Not Active
{{/if}}
</InfoTableRow>
{{/each}}

</section>
---
layout: docs
page_title: license get - Command
description: |-
The "license get" command reports on the license in use.
---

license get

The `license get` command reports on the license in use. With the `-signed`
flag, it will return the actual license string, but only if the license
is stored, as opposed to [autoloaded](/docs/enterprise/license/autoloading).

Examples

Describe current license:

```shell-session
$ vault license get
Key                     Value
---                     -----
expiration_time         2022-05-17T23:59:59Z
features                [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas Key Management Secrets Engine Automated Snapshots]
license_id              060d7820-fa59-f95c-832b-395db0aeb9ba
performance_standby_count  9999
start_time              2021-05-17T00:00:00Z
termination_time
        2031-05-17T23:59:59Z
```

Get stored license string:

```shell-session
$ vault license get -signed
02MV4UU43BK5H...
```

Try to get stored license string when using autoloading:

```shell-session
```

```
$ vault license get -signed
License not found or using a temporary license.
```

Usage

The following flags are available in addition to the [standard set of
flags](/docs/commands) included on all commands.

Command Options

- `-signed` `(bool: false)` - Return the signed license string when using a
stored license.
---
layout: docs
page_title: Vault Enterprise License
description: An overview of license.

Vault License

Licenses and EULA enhancements have been introduced in Vault 1.8 release. Please refer to the
[FAQ](/docs/enterprise/license/faq) for common questions concerning these changes.

The [Install a HashiCorp Enterprise License](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=vault/enterprise) tutorial provides the instruction to load your Vault license.

```
.license-banner-wrapper {
 width: 100%;
 max-width: 1344px;
 margin: $spacing-l auto 0;
 padding: 0 1.5rem;
}
```

```
package license

// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
 return false
}
```

1.304 an-indigo 1.5

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1.307 prometheus-client-model 0.2.0

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1.309 u-boot 2010.03

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1.311 pycurl 7.45.2

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1.312 openssh 9.1p1

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*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.314 libnsl 2.22

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(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

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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

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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
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	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 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 direction to make these releases possible.

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

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

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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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Thanks to the many outside volunteers who have worked under Guido's
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1.317 ncurses 6.4

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1.321 kubernetes-client 0.26.2

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1.322 setserial 2.17

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/*
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The of the start-stop-daemon

* 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>,
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1.324 sysv-init 2.88

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1.326 selinux 3.0

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Key Dates

---

* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0
to Version 1.1 to cover open source documentation associated
with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a
backwards compatible extension that adds support for document
files in both source form and compiled form.

References:

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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=629

* April 9, 2019

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1. Create a change description in the format specified below to
   use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
   and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
   contribution is made under the terms of the specified
   contribution agreement. Your "Contributed-under" message
   must include the name of contribution agreement and version.
   For example: Contributed-under: TianoCore Contribution Agreement 1.1
   The "TianoCore Contribution Agreement" is included below in
   this document.
4. Submit your code to the TianoCore project using the process
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   not documented, then submit the code on development email list
   for the project.
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  ==
  = Change Description / Commit Message / Patch Email =
  ==

  Your change description should use the standard format for a
  commit message, and must include
your "Signed-off-by" signature
  and the "Contributed-under" message.

  == Sample Change Description / Commit Message =

  === Start of sample patch email message ===

  From: Contributor Name <contributor@example.com>
  Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

  Full-commit-message

  Contributed-under: TianoCore Contribution Agreement 1.1
  Signed-off-by: Contributor Name <contributor@example.com>

  An extra message for the patch email which will not be considered part
  of the commit message can be added here.

  Patch content inline or attached

  === End of sample patch email message ===

  === Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions
for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the
contribution is
  made under the terms of the contribution agreement. This
  agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.

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==========
= Code Contributions =
==========

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to
use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under"
message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified

contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.0
The "TianoCore Contribution Agreement" is included below in
this document.

4. Submit your code to the TianoCore project using the process
that the project documents on its web page. If the process is
not documented, then submit the code on development email list
for the project.

5. It is preferred that contributions are submitted using the same
copyright license as the base project. When that is not possible,
then contributions using the following licenses can be accepted:
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Contributions of code put into the public domain can also be
accepted.

Contributions using other licenses might be accepted, but further
review will be required.

==========
= Change Description / Commit Message / Patch Email =
==========

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under:
TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code. For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change.
Each line should be less than ~70 characters.
* "Contributed-under" explicitely states that the contribution is
  made under the terms of the contribtion agreement. This
  agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.

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*
* from: @(#)ftp_var.h 5.9 (Berkeley) 6/1/90

* $Id: ftp_var.h,v 1.12 1999/10/02 18:39:17 dholland Exp $
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* from: @(#)pathnames.h 5.2 (Berkeley) 6/1/90
* $Id: pathnames.h,v 1.1 1996/07/13 23:46:07 dholland Exp $
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Found in path(s):
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1.330 time 1.7

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xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>org.snmp4j</groupId>
  <artifactId>snmp4j</artifactId>
  <packaging>jar</packaging>
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 <version>2.8.18</version>
 <properties>
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    <maven.compiler.target>8</maven.compiler.target>
    <maven.compiler.release>8</maven.compiler.release>
 </properties>
 <name>SNMP4J</name>
 <description>SNMP API for Java</description>
 <url>https://www.snmp4j.org</url>
 <developers>
    <developer>
       <name>Frank Fock</name>

<email>fock@agentpp.com</email>
       <organization>AGENTPP</organization>
       <organizationUrl>https://agentpp.com</organizationUrl>
    </developer>
 </developers>
 <scm>
<url>scm:git:git@snmp.app:snmp4j.git</url>
    <developerConnection>scm:git:git@snmp.app:snmp4j.git</developerConnection>
 </scm>
 <licenses>
    <license>
       <name>Apache 2</name>
       <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
       <distribution>repo</distribution>
    </license>
 </licenses>
 <organization>
    <name>SNMP4J.org</name>
    <url>https://www.snmp4j.org</url>
 </organization>
 <profiles>
    <profile>
       <id>default</id>
       <distributionManagement>
          <downloadUrl>https://snmp.app/dist</downloadUrl>
          <repository>
             <uniqueVersion>false</uniqueVersion>
             <id>oosnmpRepo</id>
             <name>snmp.app Repository</name>
              <url>dav:https://snmp.app/dist/release</url>
             <layout>default</layout>
          </repository>
          <snapshotRepository>
```

```
            <uniqueVersion>false</uniqueVersion>
            <id>oosnmpRepo</id>
            <name>snmp.app Snapshots</name>
            <url>dav:https://snmp.app/dist/snapshot</url>
            <layout>default</layout>
          </snapshotRepository>
        </distributionManagement>
        <build>
          <plugins>
            <plugin>
              <artifactId>maven-assembly-plugin</artifactId>
              <version>3.4.2</version>
              <configuration>
                <descriptors>
                  <descriptor>assembly.xml</descriptor>
                </descriptors>
              </configuration>
              <executions>

             <execution>
                    <id>make-assembly</id>
                    <phase>package</phase>
                    <goals>
                      <goal>single</goal>
                    </goals>
                  </execution>
              </executions>
            </plugin>
          </plugins>
        </build>
      </profile>
      <profile>
        <id>ossrh</id>
        <distributionManagement>
          <snapshotRepository>
            <id>ossrh</id>
            <url>https://oss.sonatype.org/content/repositories/snapshots</url>
          </snapshotRepository>
          <repository>
            <id>ossrh</id>
            <url>https://oss.sonatype.org/service/local/staging/deploy/maven2/</url>
          </repository>
        </distributionManagement>
        <build>
          <plugins>
             <plugin>
              <groupId>org.apache.maven.plugins</groupId>
              <artifactId>maven-gpg-plugin</artifactId>
```

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            <version>1.6</version>
            <executions>
              <execution>
                <id>sign-artifacts</id>
                <phase>verify</phase>
                <goals>
                  <goal>sign</goal>
                </goals>
              </execution>
            </executions>
            <configuration>
              <keyname>${gpg.keyname}</keyname>
              <passphraseServerId>${gpg.keyname}</passphraseServerId>
              <gpgArguments>
                <arg>--pinentry-mode</arg>
                <arg>loopback</arg>
              </gpgArguments>
             </configuration>
          </plugin>
          <plugin>
            <groupId>org.sonatype.plugins</groupId>
            <artifactId>nexus-staging-maven-plugin</artifactId>
            <version>1.6.13</version>
            <extensions>true</extensions>
            <configuration>
              <serverId>ossrh</serverId>
              <nexusUrl>https://oss.sonatype.org/</nexusUrl>
              <autoReleaseAfterClose>true</autoReleaseAfterClose>
            </configuration>
          </plugin>
        </plugins>
      </build>
    </profile>
  </profiles>
  <dependencies>
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.13.1</version>
      <scope>test</scope>
    </dependency>
  </dependencies>
  <build>
    <outputDirectory>classes</outputDirectory>
     <extensions>
      <extension>
        <groupId>org.apache.maven.wagon</groupId>
        <artifactId>wagon-webdav-jackrabbit</artifactId>
```

```
      <version>3.5.1</version>
    </extension>
  </extensions>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-help-plugin</artifactId>
      <version>3.3.0</version>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-jar-plugin</artifactId>
      <version>3.3.0</version>
      <configuration>
        <excludes>
          <exclude>classes-test/**</exclude>
        </excludes>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>

<artifactId>maven-source-plugin</artifactId>
      <version>3.2.1</version>
      <configuration>
        <excludes>
          <exclude>src/test/*</exclude>
        </excludes>
      </configuration>
      <executions>
        <execution>
          <id>attach-sources</id>
          <phase>verify</phase>
          <goals>
            <goal>jar-no-fork</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-javadoc-plugin</artifactId>
      <version>3.4.1</version>
      <executions>
        <execution>
          <id>attach-javadocs</id>
          <goals>
            <goal>jar</goal>
```

```
                </goals>
              </execution>
            </executions>
            <configuration>
              <stylesheet>java</stylesheet>
              <stylesheetfile>${basedir}/src/main/javadoc/stylesheet.css</stylesheetfile>
              <doctitle>${project.name} ${project.version}</doctitle>
              <footer>Copyright 2005-2023 Frank Fock (SNMP4J.org)</footer>
              <windowtitle>${project.name} ${project.version}</windowtitle>
              <excludePackageNames>org.snmp4j.test:org.snmp4j.test.tools.console</excludePackageNames>
              <show>protected</show>
              <version />
              <author />
              <encoding>UTF-8</encoding>
            </configuration>
          </plugin>
          <plugin>
            <artifactId>maven-compiler-plugin</artifactId>
            <version>3.10.1</version>
            <configuration>

          <source>8</source>
                <target>8</target>
                <release>8</release>
                <encoding>UTF-8</encoding>
            </configuration>
          </plugin>
        </plugins>
    </build>
</project>

Found in path(s):
* /snmp4j-2-8-18-sources-jar/META-INF/maven/org.snmp4j/snmp4j/pom.xml
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 _##
 _##  SNMP4J - UsmUserEntry.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/security/UsmUserEntry.java
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 _##  SNMP4J - BitString.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/smi/BitString.java
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 _##  SNMP4J - ResponseEvent.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/event/ResponseEvent.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/transport/TransportListener.java
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 _##  SNMP4J - MessageDispatcher.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/MessageDispatcher.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/util/TimerFactory.java
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 _##  SNMP4J - WorkerTask.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/util/WorkerTask.java
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/*_########################################################################
 _##
 _##  SNMP4J - PrivacyProtocol.java
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Found in path(s):
* /snmp4j-2-8-18-sources-jar/org/snmp4j/security/PrivacyProtocol.java
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```
/*_########################################################################
 _##
 _##  SNMP4J - Priv3DES.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/security/Priv3DES.java
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 _##  SNMP4J - DefaultPDUFactory.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/util/DefaultPDUFactory.java
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```
/*_########################################################################
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 _##  SNMP4J - IpAddress.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/smi/IpAddress.java
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```
/*_##########################################################################
 _##
 _##  SNMP4J - SNMPv3SecurityModel.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/security/SNMPv3SecurityModel.java
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/*_##########################################################################
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 _##  SNMP4J - AssignableFromInteger.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/smi/AssignableFromInteger.java
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 _##  SNMP4J - TlsX509CertifiedTarget.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/transport/tls/TlsX509CertifiedTarget.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/event/AuthenticationFailureEvent.java
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*
 /snmp4j-2-8-18-sources-jar/org/snmp4j/util/package.html
* /snmp4j-2-8-18-sources-jar/org/snmp4j/mp/package.html
* /snmp4j-2-8-18-sources-jar/org/snmp4j/security/package.html
* /snmp4j-2-8-18-sources-jar/org/snmp4j/event/package.html
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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

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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.

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

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

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

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

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

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

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

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials

specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

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

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

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

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

7. You may place library facilities that are a work based on the
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facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
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
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where to find the accompanying uncombined form of the same work.

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impose that choice.

This section is intended to make thoroughly clear what is believed to
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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.>
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Also add information on how to contact you by electronic and paper mail.

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

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

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

That's all there is to it!

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Version 3, 29 June 2007

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When we speak of free software, we are referring to
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have the freedom to distribute copies of free software (and charge for
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want it, that you can change the software or use pieces of it in new
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To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
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For example, if you distribute copies of such a program, whether

gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

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.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

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You may convey verbatim copies of the Program's source code as you
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recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified
it, and giving a relevant date.

b) The work must carry prominent notices stating that it is

released under this License and any conditions added under section
7. This requirement modifies the requirement in section
4 to
"keep intact all notices".

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

d) If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive
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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
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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

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

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

Several engineers at Cygnus Solutions have also provided many

small
bug fixes and configuration enhancements.

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

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

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

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

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

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

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

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1.340 lvm2 1.02.149

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1.344 libnss-nisplus 1.3

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1.346 selinux 3.3

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1.347 makedumpfile 1.6.4

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1.350 mxj 2.5.5

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1.352 libnss-nis 3.2

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1.353 libxcrypt 4.4.36

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1.355 kube-openapi 0.0.0-20221012153701-172d655c2280

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
```

```
const licenseYAML = "name: the name\nurl: the url\n"

assertSerializeJSON(t, license, licenseJSON)
assertParsesJSON(t, licenseJSON, license)
}
```

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1.357 go-sysconf 0.3.12

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1.358 speexdsp 1.2

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1.370 vim 8.1

1.371 util-linux 2.26.0

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NR START   END SECTORS SIZE NAME UUID
1   32 7679   7648 3.7M   8f8378c0-01
2 7680 16383   8704 4.3M   8f8378c0-02
5 7936 12799   4864 2.4M
6 12544 16127   3584 1.8M

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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
 local raw_license_text=$(<"$FILE")

 # Convert to lowercase
 local lowercase_license_text="${raw_license_text,,}"

 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
 echo "Please provide a FILE as an argument."
```

```
 exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B  "1
x   ?"U@,5  @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B  "1
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1.373 curl 8.4.0

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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 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
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All Python releases are Open Source (see http://www.opensource.org for
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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
2.2 and above				
2.1.1		2001-now	PSF	yes

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1.382 util-linux 2.32.1

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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
 local raw_license_text=$(<"$FILE")

 # Convert to lowercase
 local lowercase_license_text="${raw_license_text,,}"

 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
```

```
 echo "Please provide a FILE as an argument."
 exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
```

```
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43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g
```

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!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

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1.387 python 3.8.14

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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.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
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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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1.388 e2fsprogs 1.45.6

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

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file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# 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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Index: tdbsa/tdb.c

==========

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

- Unix SMB/CIFS implementation.

+ trivial database library - standalone version

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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

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This file contains a list of people who've made non-trivial
contribution to the Google C++ Testing Framework project. People
who commit code to the project are encouraged to add their names
here. Please keep the list sorted by first names.

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1.391 cracklib 2.9.0

1.391.1 Available under license :

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Version 2.1, February 1999

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"work that uses the
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d) If distribution of the work is made by offering access to copy

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

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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

> Re: [Cracklib-devel] cracklib license
> From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.=20
>
> -- Nathan
> =20
> ---
> Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

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

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan
wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]
cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro

maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
> it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
>=20
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?

>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using
the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages

> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October
2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed

as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From
 alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
 [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]

Status: RO
Content-Length:
585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

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

Happy now? :-)

-a

1.392 perl 5.34.0

1.392.1 Available under license :

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<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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Gnomovision version 69, Copyright (C) 19xx 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

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

Yoyodyne, Inc., hereby disclaims
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

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

That's all there is to it!

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1.393 nfs-utils 3.1.1

1.393.1 Available under license :

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1.397 pcre 7.8

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1.398 urllib3 1.26.18

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1.400 python-pip 22.0.4

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
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:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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 $
A. HISTORY OF THE SOFTWARE
==========

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

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

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

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

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
2.7	2.6	2010	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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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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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

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History

Before (and including) argparse 1.1, the argparse package was licensed under
Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted
due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from
Python 2.7.1, so definitely all files are under Python License now.
A. HISTORY OF THE SOFTWARE
==========================

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
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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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entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

The precise terms and conditions for copying, distribution and

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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:

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to

avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

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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.

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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.

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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.

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1.407 pcre 8.45

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1.408 libevent 2.1.5-beta

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1.409 py 1.10.0

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u(=31X).STO./:T"specfiles/smartpd_spec_xbow_18.xml]2;V7P]]p=31XP^ZRnW!specfiles/smartpd_spec_xbow_2.xml]3#%(]]p$=318..Iwyo!specfiles/smartpd_spec_xbow_6.xmlTREE=41
 1
7'R\0`hxOspecfiles34 0
0
0Qu`!?B>e=>RyD
c3da9d643002251226ecb9ff51aec487cca6a3e6
[core]
 repositoryformatversion = 0
 filemode = true

```
 bare = false
 logallrefupdates = true
[remote "origin"]
 url = https://dscm.esl.cisco.com/git/153/comp-15301478.git
 fetch = +refs/heads/*:refs/remotes/origin/*
[branch "skywalker_com"]
 remote = origin
 merge = refs/heads/skywalker_com
0000000000000000000000000000000000000000 06bd77b5d7b50a7afdce738674ec142c655701bf nxbld
<nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301478.git
72f82a676e4e8a7e8afdf779f565129030a3b2d3
0000000000000000000000000000000000000000 06bd77b5d7b50a7afdce738674ec142c655701bf nxbld
<nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301478.git
06bd77b5d7b50a7afdce738674ec142c655701bf 8c2f854e2708bbf9c727a1c92ef848dec8793c10 nxbld
<nxbld@cisco.com> 1571052911 -0700 checkout: moving from skywalker_com to skywalker_com/37
DIRC
]]o$x&]]o$x&:3*$yx$5M[22export/isan/lic_common.h]]o%M]]o%M:3*(
Cemw7export/isan/lic_defs.h]]o&b]]o&b:3*U[C99$p~export/isan/lic_features.h]]o&SP]]o&SP:3*F91!export/isan/l
ic_features_itasca.h]]o'3]]o'3:3*yXv5xDGqUexport/isan/lic_intf.h]]o(I]]o(I:3*%Ff]23>:69#export/isan/lic_smart_c
ommon_defs.h]]o(()]]o((:3*^*$>f
bexport/isan/lic_smart_defs.h]]o)Lc@]]o)Lc@:3*)J:%Oqy#export/isan/lic_smart_intf.h]]o)
]]o)
:3*0l0{;r
dXexport/isan/licmgr_syserr_def.h]]o*}]]o*}:3*0\azq[d`|!export/isan/licmgr_syslog_def.msg]]o+%]]o+%:3*j _
#w4IKLP lic_api.c]]o+x ]]o+x :3*l*NM~vs;lic_api_isan.c]]o,0]]o,0:7U, /MTm_wO module.mkTREEX13 1
  _@*^Lh?P}export10 1
Kwo*$GVisan10 0
,|_*)DDWPRNuDf>
caaa75e0b83f705095b8e9759a6c2468a1e07e98
72f82a676e4e8a7e8afdf779f565129030a3b2d3  'refs/notes/acme' of https://dscm.esl.cisco.com/git/153/comp-
15304913
bb5dd4e3d533c9da4a0346dec4e99db159444284  branch 'atherton_com' of https://dscm.esl.cisco.com/git/153/comp-
15304913
b8aff37d77e764c796d1d0c28f2762c01ac53d7b  branch 'avalon_nx_com' of https://dscm.esl.cisco.com/git/153/comp-
15304913
a99b88badbd4272519eee57ccc729e054c977969  branch 'beverlyhills_com' of
https://dscm.esl.cisco.com/git/153/comp-15304913
6adacf0ec9833cb347105b9e47b64b225e8ad77f  branch 'beverlyhills_rel_8_2_1_com' of
https://dscm.esl.cisco.com/git/153/comp-15304913
93d12f881c6fe530912b4b211a67c226f5a0a6f6  branch 'calculon' of https://dscm.esl.cisco.com/git/153/comp-
15304913
2c44772f070b427bbe767384281cdc2b17c45dd2  branch 'calculon2' of https://dscm.esl.cisco.com/git/153/comp-
15304913
f2dad64daa260f5464c4192f0d687234345cf571  branch 'calculon_tsh' of https://dscm.esl.cisco.com/git/153/comp-
15304913
1a3e4b284cd4bbbf1236f01feb943b593385afbc  branch 'cupertino_com'
 of https://dscm.esl.cisco.com/git/153/comp-15304913
333f8b22c5dad178e0e0fc0db61cc88b252a5a4c  branch 'davis_com' of https://dscm.esl.cisco.com/git/153/comp-
```

15304913
532ad52e38441b5c968d70e7ee1842532cf38ef4 branch 'davis_rel_8_4_2_com' of
https://dscm.esl.cisco.com/git/153/comp-15304913
81558d725c512dea80115034bd969ae7ab82971d branch 'h_brewdog' of https://dscm.esl.cisco.com/git/153/comp-15304913
cb5e960353d156b29d0f7887df66ab8a1b76f8f7 branch 'h_dev' of https://dscm.esl.cisco.com/git/153/comp-15304913
d87970b05607ec1feb037391dbd6269e79de749b branch 'h_dev_sa_ft' of https://dscm.esl.cisco.com/git/153/comp-15304913
71caa948731b1c288916c62c49dd08c79bf86be4 branch 'h_dev_wrl8' of https://dscm.esl.cisco.com/git/153/comp-15304913
532a8e0d81ea4c06fc05ec1ff0b2446b7075609e branch 'h_fretta_jr2' of https://dscm.esl.cisco.com/git/153/comp-15304913
2a7b35189a3c505ab0f6b8981175dd36bbadea93 branch 'h_wrl8_toolchain' of
https://dscm.esl.cisco.com/git/153/comp-15304913
3081e36dc98bdbad6668df02fc53b3fbe91c2043 branch
'hamilton' of https://dscm.esl.cisco.com/git/153/comp-15304913
e580fe800a23ae12cab1b4c3948bfcf3dc7e6943 branch 'hmr1' of https://dscm.esl.cisco.com/git/153/comp-15304913
f853df991f4ddabf796e4905b1ea8f80aa68430d branch 'hyams' of https://dscm.esl.cisco.com/git/153/comp-15304913
c82de33facbe8dcaa7471d6448cbc2692c23133f branch 'i_wrl8_toolchain' of
https://dscm.esl.cisco.com/git/153/comp-15304913
c567f993b995c707682ad3e4024dcada9170a44a branch 'iluka' of https://dscm.esl.cisco.com/git/153/comp-15304913
35703830b1028279212d18127310b1f537de2600 branch 'india-bnb' of https://dscm.esl.cisco.com/git/153/comp-15304913
8497e8737769f1623677fb90c1ac1177217fafd9 branch 'infinity_25k' of https://dscm.esl.cisco.com/git/153/comp-15304913
4d55199f60767c881ef6b39416561dd1ce82634f branch 'iplus' of https://dscm.esl.cisco.com/git/153/comp-15304913
1d26670bb31832b0da818b9f633b6bf0be96a60e branch 'iplus_b' of https://dscm.esl.cisco.com/git/153/comp-15304913
dd52ff0c8ac184ae065ca78274831af0ebfa5da4 branch
'iplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15304913
1a92f4a9cb1a28a9aaadccc739948747912580f7 branch 'iplus_dev_fact' of https://dscm.esl.cisco.com/git/153/comp-15304913
85d1811cced66133ecd9d8b47f8f2f6c0bdf59a7 branch 'irvine' of https://dscm.esl.cisco.com/git/153/comp-15304913
142205fcefcbc46a032199f2c0a3f1cc299d2fe0 branch 'janjuc_dev' of https://dscm.esl.cisco.com/git/153/comp-15304913
3a4b31955ff71aaadba641deec29bc2c71281a5b branch 'kokomo' of https://dscm.esl.cisco.com/git/153/comp-15304913
efe9493ec6a6085f630d8838eb84c6d475db6a84 branch 'main' of https://dscm.esl.cisco.com/git/153/comp-15304913
96c72647f529934f90fcf96b7198e97334a1dec0 branch 'rel_7_3_0_d1_1_1453097459' of
https://dscm.esl.cisco.com/git/153/comp-15304913
fbfc3d1578037627321f90c6010d7bfae20124ec branch 'rel_7_3_0_d1_1c_1481384364' of
https://dscm.esl.cisco.com/git/153/comp-15304913
d5e42294f3511cdacc487532c4018d64b015d874 branch 'rel_7_3_0_d1_1c_1481435930' of
https://dscm.esl.cisco.com/git/153/comp-15304913
b93817d61457625d280905071d174036cf301ed5 branch
'rel_7_3_0_d1_1c_1481436596' of https://dscm.esl.cisco.com/git/153/comp-15304913
caaa75e0b83f705095b8e9759a6c2468a1e07e98 branch 'skywalker_com' of https://dscm.esl.cisco.com/git/153/comp-15304913

2222107d6de87a1b37f03c99b2022e8b275e30f0 branch 'skywalker_rel_8_2_0_sk_0_148_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
1c96cf1f4347ad31fca1d1219e080c318d89e4e3 branch 'skywalker_rel_8_3_0_cv_0_5sa_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
57b2eb170c4b4a74ec56c9865f04d4820cb6f65a branch 'sl_sch' of https://dscm.esl.cisco.com/git/153/comp-15304913
f416ba248c03ff4cbe2fa9c5c65f8eb4103c2141 branch 'sl_sch_zn73' of https://dscm.esl.cisco.com/git/153/comp-15304913
ac04e81e2b15b0347e9b7608f46e9153a825a1df branch 'sync_skywalker_73_160407_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
99bc53ed7fce2afa73dceadb26697946d127596b branch 'ucs_h_fex_dev' of https://dscm.esl.cisco.com/git/153/comp-15304913
5acaa4186df793d120ec5fd8521a890e82d011e3 branch
 'udb' of https://dscm.esl.cisco.com/git/153/comp-15304913
6e219379ef625b23c0ee622dcd98e8566dcbf4ac branch 'yushan_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
ca62ee705ae8500d6b466de450d2ac1930c9cce8 branch 'zulu' of https://dscm.esl.cisco.com/git/153/comp-15304913
0000000000000000000000000000000000000000 72f82a676e4e8a7e8afdf779f565129030a3b2d3 nxbld <nxbld@cisco.com> 1571052914 -0700 fetch origin +refs/notes/*:refs/notes/* +refs/heads/*:refs/remotes/origin/*: storing ref
8c2f854e2708bbf9c727a1c92ef848dec8793c10
6ab876a0dbcfa2c947e799e27a35dca800739608
0000000000000000000000000000000000000000 6ab876a0dbcfa2c947e799e27a35dca800739608 nxbld <nxbld@cisco.com> 1571052908 -0700 fetch origin +refs/notes/*:refs/notes/* +refs/heads/*:refs/remotes/origin/*: storing ref
18b34bd8ae4af33255a6f417361e11786b620994
0000000000000000000000000000000000000000 c3da9d643002251226ecb9ff51aec487cca6a3e6 nxbld <nxbld@cisco.com> 1571052903 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301477.git
c3da9d643002251226ecb9ff51aec487cca6a3e6 6317bf6b870ced4150254b3da3f7958fa95f2ae2 nxbld <nxbld@cisco.com> 1571052905 -0700 checkout: moving from h_cn12k to davis_com/4
#!/usr/bin/env bash
MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
This script will read the license file into memory, strip out the copyright, and then
generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
 local raw_license_text=$(<"$FILE")

 # Convert to lowercase
 local lowercase_license_text="${raw_license_text,,}"

 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

```
 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
 echo "Please provide a FILE as an argument."
 exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
18b34bd8ae4af33255a6f417361e11786b620994  'refs/notes/acme' of https://dscm.esl.cisco.com/git/153/comp-
15301478
a9e968e0393d063a27fb613ebd8013c3cfd23235  branch 'a1_5_id_integration' of
https://dscm.esl.cisco.com/git/153/comp-15301478
afe8550a2a99bd55b610046fdca6d0e8e16e47eb  branch 'acme_empty' of https://dscm.esl.cisco.com/git/153/comp-
15301478
308364ff4b363199edaa4c72c54be421e6eafab9  branch 'airstrike_dev' of https://dscm.esl.cisco.com/git/153/comp-
15301478
d951635e6599d6d825f6f7d76e00b0d980ffd9fd  branch 'airstrike_platform_dev' of
https://dscm.esl.cisco.com/git/153/comp-15301478
81f8d38112706cfe228a221cdd72a9588062b139  branch 'albacore' of https://dscm.esl.cisco.com/git/153/comp-
15301478
bd8ee01e51eba6d8807f386f7d3a10bc5cc9f65b  branch 'amazon' of https://dscm.esl.cisco.com/git/153/comp-
15301478
cb09ca28abb6bb79ae7fa12660ddfdb4e22f673d  branch 'andaman' of https://dscm.esl.cisco.com/git/153/comp-
15301478
0d9988b3de90d054e1666f39f9e474563369c7c7  branch 'ankaa1_4' of https://dscm.esl.cisco.com/git/153/comp-
15301478
8e974fd806e21178acbf71b1a40a25e835f3aa6a  branch
```

'ankara' of https://dscm.esl.cisco.com/git/153/comp-15301478
c8bf2a2ce2ecd0a25787ac002768f580bca55a3a branch 'aons_foundation_fea' of
https://dscm.esl.cisco.com/git/153/comp-15301478
f0153cc8691a03ddfeb9fe09487a2ab24a92bb24 branch 'aons_foundation_phase2' of
https://dscm.esl.cisco.com/git/153/comp-15301478
209f245ff9d10439d57457153c1c53eca6b14a0e branch 'ashfield' of https://dscm.esl.cisco.com/git/153/comp-
15301478
cc56533d43f9e39a60f2a7bfb62d8b1938bfd530 branch 'au' of https://dscm.esl.cisco.com/git/153/comp-15301478
42f3803c386f1eb208fb1675c2fc0f6c91cc28c4 branch 'auriga' of https://dscm.esl.cisco.com/git/153/comp-15301478
0e2abdde0112e8faf7fe7376575ae41c0d7fac3c branch 'auriga_413_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
4e57527e61c55498dde96981a2763819df7559b8 branch 'avalon' of https://dscm.esl.cisco.com/git/153/comp-
15301478
5eba6175fe77386b88338a17e2d00642c831d8b2 branch
'avalon_nx_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
a5cd77b65d4b8b7ddede9b201d7fc9b7b3bc3c5d branch 'avalon_nx_rel_8_1_1a_com' of
https://dscm.esl.cisco.com/git/153/comp-15301478
98155803684c6c32501bc515cc81136a43a74f5c branch 'avatar_2' of https://dscm.esl.cisco.com/git/153/comp-
15301478
da0988fffdd53577b908ea3ec8af40f78068b5ec branch 'baikal-rib' of https://dscm.esl.cisco.com/git/153/comp-
15301478
9434333d1a53a7e400b722d14c941908313d3ee7 branch 'baikal_22_dev' of https://dscm.esl.cisco.com/git/153/comp-
15301478
0ba8b4111856085b1761b4fc1efb7ec3e2d3015c branch 'baikal_23_dev' of https://dscm.esl.cisco.com/git/153/comp-
15301478
9f8cec8effef5fa0652a44107950cf9433f40f3b branch 'baselard' of https://dscm.esl.cisco.com/git/153/comp-15301478
d2b8f4e3fe94a3c793f867a399bbb46e0d287527 branch 'baselard_integ' of https://dscm.esl.cisco.com/git/153/comp-
15301478
02c73c9c0f8ea32a343152ab5c2ea053b0c412ba branch 'bender' of https://dscm.esl.cisco.com/git/153/comp-
15301478
a3d0176a1cee663ff1ae51273b36819b8f916157 branch
'bender_bf' of https://dscm.esl.cisco.com/git/153/comp-15301478
69265b091ea751da11ba4ca4e41cdf7e6a4d789a branch 'bender_throttle' of https://dscm.esl.cisco.com/git/153/comp-
15301478
c6a472ed4cbdfe3e7a64978035aeaa248895f965 branch 'beverlyhills' of https://dscm.esl.cisco.com/git/153/comp-
15301478
4d00b9d06b0ea7ee6fda3dd73c6b869d67a5dded branch 'beverlyhills_com' of
https://dscm.esl.cisco.com/git/153/comp-15301478
faa7f394239f28a25f6e5d8196b3ee28413b9d67 branch 'beverlyhills_rel_8_2_3_com' of
https://dscm.esl.cisco.com/git/153/comp-15301478
497711a3e17bf818e6903106fe026715895514dc branch 'beverlyhills_rel_8_2_4' of
https://dscm.esl.cisco.com/git/153/comp-15301478
9cb4a4d0c61746e528a5e20645a7512c7e9ea776 branch 'beverlyhills_rel_8_2_4_com' of
https://dscm.esl.cisco.com/git/153/comp-15301478
c9e422c3edab989cd757e6eb76c57fdad99a61b6 branch 'bl' of https://dscm.esl.cisco.com/git/153/comp-15301478
8eccefee47743483aa4ff7e0a5907eb3ce03875d branch
'bogota' of https://dscm.esl.cisco.com/git/153/comp-15301478
a5b7f1d055b928bdfaf21ae63d201ad6a7d87067 branch 'bouncer_main_31' of

https://dscm.esl.cisco.com/git/153/comp-15301478
581840ee91bca23db25ff210ee8f48f088c924fd branch 'bouncer_main_new_3_3' of
https://dscm.esl.cisco.com/git/153/comp-15301478
cd09c803cf7b3cb2d7802156ff44377aa66aa93d branch 'brixton' of https://dscm.esl.cisco.com/git/153/comp-15301478
bf01624ddb7848c137cc3fb9cb41340e950c1507 branch 'bronte' of https://dscm.esl.cisco.com/git/153/comp-15301478
f9059ec29402fd4ee5be7a3d2c1220b237dfab40 branch 'c4710ace-a1_7-throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
7ef062aca523fab7b179dbfc2b28531990e1f04d branch 'cairo' of https://dscm.esl.cisco.com/git/153/comp-15301478
ce9962af46904057f11fb9708dedb4d54e0bb5c1 branch 'calculon' of https://dscm.esl.cisco.com/git/153/comp-15301478
81afd4e3c64fe90013115c0bc393e26a6aeb19c6 branch 'calculon2' of https://dscm.esl.cisco.com/git/153/comp-15301478
947493009e8b5bc81c4196a0de081e1560a7abfe branch
'calculon_tsh' of https://dscm.esl.cisco.com/git/153/comp-15301478
749a41a6d3b20ba21a43d21c873d1b3af59eab05 branch 'camden' of https://dscm.esl.cisco.com/git/153/comp-15301478
c89e8dbd92b78b6bc948f1cdec994cfa683bb779 branch 'cat6k-fex' of https://dscm.esl.cisco.com/git/153/comp-15301478
23dd6099d12bfe2707a0be1814fc5a9702ff62d7 branch 'cinquedia' of https://dscm.esl.cisco.com/git/153/comp-15301478
903505c805418ae362f73860747d1b78b1eba6d1 branch 'cinquedia_bld2_proj' of
https://dscm.esl.cisco.com/git/153/comp-15301478
fb27e70ceb2a644c4f99786faf1ece9737ef4f6a branch 'cinquedia_next' of https://dscm.esl.cisco.com/git/153/comp-15301478
145bc311522c112f9571db2cd33c5324ff767666 branch 'converge_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
14918d493e18d785fae043824958b0fa32926d97 branch 'csg2_main' of https://dscm.esl.cisco.com/git/153/comp-15301478
4b765db93d2df109734312bdff039521f8112a46 branch 'cupertino_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
b44b68849c01d3c522a065ce7559510609068115 branch
'd_plus' of https://dscm.esl.cisco.com/git/153/comp-15301478
bdff5834f036b12d1bf2ac1e5171097914419757 branch 'daox' of https://dscm.esl.cisco.com/git/153/comp-15301478
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https://dscm.esl.cisco.com/git/153/comp-15301478
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353bdbdf012daf882a63fb13c14639aa58b85d41 branch 'sl_sch_zn73' of https://dscm.esl.cisco.com/git/153/comp-15301478
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.lfsconfig]]g-[ ]]g-[:6g=D:aRh
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cli/lic_cli.h]]g.]]g.:67I{0BMcli/lic_cli_isan.c]]g/]]g/:0}n"-glzHC
cli/lic_cmi.h]]g0u]]g0u:0S3aXG,*Zkcli/licmgr.cmd]]g0W]]g0W:0JqX*zj=\p{5cli/licmgr.xml]]g1]]g1:0`>N_Ocli/licmgr.xml.h]]g2]]g2:0".T7rlj=Rcli/licmgr_cmd.h]]g2P]]g2P:0I})Bz3='_*Tk'{cli/licmgr_isan.xml]]g3BX]]g3BX:0XEX8cli/licmgr_isan.xml.h]]g3]]g3:09V_{N|0
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%rP{^Znc*smart_shim/getinfo_api.c]]h#P]]h#P:4n,%0l]bnsmart_shim/getinfo_api.h]]h$3(]]h$3(:4n- kl,II
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<nxbld@cisco.com> 1571052912 -0700 checkout: moving from skywalker_com to davis_com/2
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1.413 python-setuptools 7.0

1.414 thttpd 2.25b

1.414.1 Available under license :

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Found in path(s):
* /thttpd-2-25b-tar/thttpd-2.25b/extras/syslogtocern.8
* /thttpd-2-25b-tar/thttpd-2.25b/extras/makeweb.1
* /thttpd-2-25b-tar/thttpd-2.25b/cgi-src/redirect.8
* /thttpd-2-25b-tar/thttpd-2.25b/cgi-src/ssi.8
* /thttpd-2-25b-tar/thttpd-2.25b/thttpd.8
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/* tdate_parse - parse string dates into internal form, stripped-down version

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*/

Found in path(s):
* /thttpd-2-25b-tar/thttpd-2.25b/tdate_parse.c
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/* fdwatch.c - fd watcher routines, either select() or poll()
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Found in path(s):
* /thttpd-2-25b-tar/thttpd-2.25b/fdwatch.c
No license file was found, but licenses were detected in source scan.

/* match.c - simple shell-style filename matcher
**
** Only does ? * and **, and multiple patterns separated by |. Returns 1 or 0.
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* /thttpd-2-25b-tar/thttpd-2.25b/match.c

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```
/* libhttpd.c - HTTP protocol library
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*/
```

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* /thttpd-2-25b-tar/thttpd-2.25b/libhttpd.c
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```
/* fdwatch.h - header file for fdwatch package
**
** This package abstracts the use of the select()/poll()/kqueue()
** system calls.  The basic function of these calls is to watch a set
** of file descriptors for activity.  select() originated in the BSD world,
** while poll() came from SysV land, and their interfaces are somewhat
** different.  fdwatch lets you write your code to a single interface,
** with the portability differences hidden inside the package.
**
** Usage is fairly simple.  Call fdwatch_get_nfiles() to initialize
** the package and find out how many fine descriptors are available.
** Then each time through your main loop, call fdwatch_clear(), then
** fdwatch_add_fd() for each of the descriptors you want to watch,
** then call fdwatch() to actually perform the watch.  After it returns
```

** you can check which descriptors are ready via fdwatch_check_fd().
**
** If your descriptor set hasn't changed from
 the last time through
** the loop, you can skip calling fdwatch_clear() and fdwatch_add_fd()
** to save a little CPU time.
**
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/* mmc.h - header file for mmap cache package
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* /thttpd-2-25b-tar/thttpd-2.25b/mmc.h
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/* phf - cracker trap
**
** Old distributions of the NCSA and Apache web servers included a
** version of the phf program that had a bug. The program could
** easily be made to run arbitrary shell commands. There is no real
** legitimate use for phf, so any attempts to run it must be considered
** to be attacks. Accordingly, this version of phf logs the attack
** and then returns a page indicating that phf doesn't exist.
**
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/* timers.c - simple timer routines
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/* libhttpd.h - defines for libhttpd
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/* config.h - configuration defines for thttpd and libhttpd
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/* timers.h - header file for timers package
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/* makeweb.c - let a user create a web subdirectory
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* /thttpd-2-25b-tar/thttpd-2.25b/extras/Makefile
* /thttpd-2-25b-tar/thttpd-2.25b/cgi-src/Makefile
* /thttpd-2-25b-tar/thttpd-2.25b/Makefile
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/* thttpd.c - tiny/turbo/throttling HTTP server

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/* match.h - simple shell-style filename patcher
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```
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```
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```
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1.415 tftp-hpa 0.28

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* /tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftpd/remap.h
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Found in path(s):
* /tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftp/tftp.1.in
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/MCONFIG.in
No license file was found, but licenses were detected in source scan.

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* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
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* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found
 in path(s):
* /tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.c
No license file was found, but licenses were detected in source scan.

/* -*- c -*- --- *
*
*   Copyright 2001-2006 H. Peter Anvin - All Rights Reserved
*
*   This program is free software available under the same license
*   as the "OpenBSD" operating system, distributed at
*   http://www.openbsd.org/.
*
* --- */

Found in path(s):
* /tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/config.h
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 5.2
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz

```
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine.  This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp-server package provides
 the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed.  The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
```

```
if [ $1 = 0 ]; then
  /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
 server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
```

- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

* Fri Jun
 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update
 to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)

- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
 is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000
 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

* Tue
Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

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*

* -- */

Found in path(s):
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Found in path(s):
* /tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftp/main.c
* /tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftp/tftp.c
*
 /tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/common/tftpsubs.c
No license file was found, but licenses were detected in source scan.

/* -- *

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*
*   This program is free software available under the same license
*   as the "OpenBSD" operating system, distributed at
*   http://www.openbsd.org/.
*
* -- */

Found in path(s):
* /tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h
* /tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.c
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/common/tftpsubs.h
* /tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftp/extern.h
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine. This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp-server package
 provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed. The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}

```
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
 server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
```

- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

*
Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
-
 update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
 is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug
 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

*
 Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

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- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):
* /tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftp.spec.in

1.416 python 2.7.3

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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
2.7	2.6	2010	PSF	yes

Footnotes:

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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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1.417 numpy 1.22.3

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

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Original algorithm for the implementation of rk_interval function from
Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by
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1.418 html5lib 1.0b1

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1.419 python-requests 2.3.0

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1.420 msgpack 1.0.4

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/**
*
*	File: racoon_ext.h
*	Name: Ganesan Rajagopal
*
*	Description:
*	Header file for external apis exported by Racoon
*
*
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*
*
* $Id: racoon_ext.h,v 1.3 2004/06/10 02:20:05 grajagop Exp $
* $Author: grajagop $
* ---
****
*/

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* /racoon-1-tar-gz/nobackup/dvadde/racoon/genlist.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/genlist.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/rsalist.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/prsa_tok.l
* /racoon-1-tar-gz/nobackup/dvadde/racoon/rsalist.h
*
 /racoon-1-tar-gz/nobackup/dvadde/racoon/prsa_par.y
* /racoon-1-tar-gz/nobackup/dvadde/racoon/plainrsa-gen.c
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* /racoon-1-tar-gz/nobackup/dvadde/racoon/cftoken.l
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```
/*
* sha2.c
*
* Version 1.0.0beta1
*
* Written by Aaron D. Gifford <me@aarongifford.com>
*
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*
*/
```

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* /racoon-1-tar-gz/nobackup/dvadde/racoon/admin.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/dhgroup.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/algorithm.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/backupsa.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/isakmp_base.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/oakley.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/dnssec.h
*
 /racoon-1-tar-gz/nobackup/dvadde/racoon/isakmp_quick.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/strnames.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/proposal.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/var.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/crypto_openssl.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/vmbuf.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/policy.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/vendorid.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/dnssec.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/isakmp_quick.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/proposal.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/sockmisc.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/misc.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/logger.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/debug.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/netdb_dnssec.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/eaytest.c
```

* /racoon-1-tar-gz/nobackup/dvadde/racoon/str2val.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/isakmp_base.h
*
/racoon-1-tar-gz/nobackup/dvadde/racoon/localconf.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/str2val.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/plog.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/racoonctl.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/sockmisc.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/plog.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/backupsa.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/algorithm.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/isakmp_ident.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/isakmp_agg.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/strnames.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/cfparse_proto.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/grabmyaddr.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/crypto_openssl.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/isakmp_inf.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/sainfo.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/remoteconf.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/vendorid.c
*
/racoon-1-tar-gz/nobackup/dvadde/racoon/isakmp_inf.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/misc.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/isakmp.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/localconf.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/vmbuf.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/admin_var.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/getcertsbyname.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/oakley.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/cftoken_proto.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/kmpstat.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/session.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/policy.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/pfkey.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/debugrm.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/isakmp_newg.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/sainfo.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/isakmp_newg.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/main.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/logger.c
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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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* /racoon-1-tar-gz/nobackup/dvadde/racoon/ipsec_doi.h
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```
/*
* rijndael-api-fst.c   v2.3   April '2000
*
* Optimised ANSI C code
*
* authors: v1.0: Antoon Bosselaers
*          v2.0: Vincent Rijmen
*          v2.1: Vincent Rijmen
*          v2.2: Vincent Rijmen
*          v2.3: Paulo Barreto
*          v2.4: Vincent Rijmen
*
```

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* /racoon-1-tar-gz/nobackup/dvadde/racoon/isakmp_frag.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/isakmp_xauth.h
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*/
/*
  * special exception for comparing
        * address to subnet id types when
        * the netmask is address length
        */
```

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* /racoon-1-tar-gz/nobackup/dvadde/racoon/isakmp_cfg.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/throttle.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/throttle.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/isakmp_frag.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/privsep.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/privsep.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/isakmp_unity.c
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This document is derived from the KAME racoon FAQ. Some answers do not
apply to ipsec-tools (they are obsolete or not up to date). They are
tagged [KAME]

Q: With what other IKE/IPsec implementation racoon is known to be interoperable?

A: [KAME]
See "IMPLEMENTATION" document supplied with KAME kit, or:
http://www.kame.net/dev/cvsweb.cgi/kame/IMPLEMENTATION
As we have tested/got test reports in the past, and our end and
the other end may have changed their implemenations, we are not sure
if we can interoperate with them today (we hope them to interoperate,
but we are not sure).
Also note that, IKE interoperability highly depends on configuration
on both ends. You must configure both ends exactly the same.

Q: How can I make racoon interoperate with <IKE/IPsec implementation>?

A:
Configure both ends exactly the same. With just a tiny little
difference, you will be in trouble.

Q: How to build racoon on my
platform?

A:
As usual: configure && make && make install
ipsec-tools is also available as a package in the NetBSD pkgsrc

Q: Describe me the options to "configure".

A:

--enable-adminport:
Lets racoon to listen to racoon admin port, which is to
be contacted by racoonctl(8).

--enable-natt:
Enable NAT-Traversal. This needs kernel support, which is
available on Linux. On NetBSD, NAT-Traversal kernel support
has not been integrated yet, you can get it from here:
http://ipsec-tools.sourceforge.net/netbsd_nat-t.diff
If you live in a country where software patents are legal,
using NAT-Traversal might infringe a patent.

--enable-broken-natt:
When ipsec-tools is built with --enable-natt, racoon
sets IKE ports in SAD and SPD so that the kernel is
able to ditinguish peers hidden behind the same NAT.
Some kernel will not cope with that ports. Use that
option to force the ports to 0 in SAD ans SPD. Of
course this means that you cannot have multiple peers
behind
the same NAT.

--enable-frag:
Enable IKE fragmentation, which is a workaround for
broken routers that drop fragmented packets

--enable-hybrid:
Enable hybrid authentication, and ISAKMP mode config and
Xauth as well. Note that plain Xauth (without hybrid auth)
is not implemented.

--with-libradius:
Enable the use of RADIUS with hybrid authentication on the
server side. RADIUS is used for authentication, configuration
and accounting.

--with-libpam:
Enable the use of PAM with hybrid authentication on the
server side. PAM can be used for authentication and accounting.

--enable-gssapi:
Enable GSS-API, for Kerberos V support.

--enable-stats:
Enable statistics logging function.

--enable-samode-unspec:
Enable to use unspecified a mode of SA.

--enable-ipv6:
Enable IPv6 support.

--with-kernel-headers:
Supply the location of Linux kernel headers.

--with-readline:
Support readline input (yes by default).

--with-openssl:
Specify OpenSSL directory.

--sysconfdir:
Where
racoon config file goes. Default is /etc, which means
that racoon will look for /etc/racoon.conf
--localstatedir:
Where is the directory where racoon stores the control socket
(when using --enable-adminport). Default is /var, which
means racoon will use /var/racoon/racoon.sock
--prefix:
Where racoon gets installed.

Q: How can I get help?

A:
Always identify your operating system platforms, the versions you are
using (like "ipsec-tools-0.5"), and information to repeat the
problem. The more revelant information you supply, the better your
chances of getting help are. Useful informations include, depending
of the problem:
- version identification
- trace from racoon, taken by "racoon -d 0xffffffff"
(maximum debug level)
- configuration file you are using
- probabaly, tcpdump trace
http://orange.kame.net/dev/send-pr.html has the guideline.

If your question is not confidential, send your questions to:
<ipsec-tools-devel@lists.sourceforge.net>

If
your question is confidential, send your questions to:
<ipsec-tools-core@lists.sourceforge.net>

Q: Other documents to look at?

A:
http://www.NetBSD.org/docs/network/ipsec/
http://www.kame.net/
http://www.kame.net/newsletter/

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* /racoon-1-tar-gz/nobackup/dvadde/racoon/racoonctl.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/schedule.c
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/*
* SELinux services exported to the rest of the kernel.
*
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*
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```
/*
* rijndael-alg-fst.c   v2.3   April '2000
*
* Optimised ANSI C code
*
* authors: v1.0: Antoon Bosselaers
*          v2.0: Vincent Rijmen
*          v2.3: Paulo Barreto
*
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*/
```

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* /racoon-1-tar-gz/nobackup/dvadde/racoon/plainrsa-gen.8
* /racoon-1-tar-gz/nobackup/dvadde/racoon/racoon.conf.5
* /racoon-1-tar-gz/nobackup/dvadde/racoon/racoonctl.8
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* /racoon-1-tar-gz/nobackup/dvadde/racoon/admin.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/isakmp.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/handler.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/isakmp_var.h
* /racoon-1-tar-gz/nobackup/dvadde/racoon/remoteconf.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/handler.h
*
/racoon-1-tar-gz/nobackup/dvadde/racoon/isakmp_ident.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/pfkey.c
* /racoon-1-tar-gz/nobackup/dvadde/racoon/session.c
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* sha2.h
*
* Version 1.0.0beta1
*
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1.427 gawk 4.2.1

1.427.1 Available under license :

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

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

compelled to copy the source along with the object code.

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

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

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

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

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

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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.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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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.

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1.428 gawk 4.1.3

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1.429 gawk 4.0.0

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

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

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

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based

on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

a) Accompany the work with the complete corresponding

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

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library

facilities. This must be distributed under the terms of the
Sections above.

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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<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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When we speak of free software, we are referring to
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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand
ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

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.

The Corresponding Source for a work in source code form is that same work.

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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed;
section 10
makes it unnecessary.

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4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately
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5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

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

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

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

6. Conveying Non-Source Forms.

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

in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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

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

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

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

A separable portion of the object code, whose source code is excluded from the Corresponding Source

as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
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typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
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keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in

source code form), and must require no special password or key for unpacking, reading or copying.

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"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

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1.430 python-certifi 2023.11.17

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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 $

1.431 sudo 1.8.14p3

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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
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Bowes, Keith
Boyce, Keith Garry
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Brooks, Piete
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Burr, Michael E
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Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
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Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard

Gailly, Jean-loup
Gelman, Stephen
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Hayman, Randy M.
Henke, Joachim
Hideaki, YOSHIFUJI
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
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Juhani, Timo
KIKUCHI, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael

Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
SATO, Yuichi
Snchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.

Stier, Matthew
Stoeckmann, Tobias
Street,
Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blttermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
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Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav

Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
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Uranga, Mikel Olasagasti
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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

1.432 sudo 1.9.13p3

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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
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Bellis, Ray
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Bowes, Keith
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Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
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Dai, Wei
Dill, David
Earickson, Jeff
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Hayman, Randy M.
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Hoover, Adam
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Jackson, Brian
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The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

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The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent
Sandwich logo (inspired by xkcd): Stillman, Mark

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1.433 sqlite 3.44.2

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1.434 grub2 2.12

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yt
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console.[ADDR|comUNIT][,SPEED]wdXYcomUNIT[,SPEED]dualDisplay output on all consoles.cdromUse CD-ROM as root.Invoke user configuration routing.gdbUse GDB remote debugger instead of DDB.muteDisable all boot output.nointrpauseWait for keypress after every line of output.dfltrootUse compiled-in root device.premature end of file %sinvalid arch-independent ELF magicinvalid arch-dependent ELF magicno symbol table_DYNAMICdynamic = %llx
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'3"3:"C')Q'4_')j'q'M"'4"'X(C('(()?(4S()^(e(M(X(\ )r)`))')4))))M *'*)**4A*F*:d*i*s*x*A*\*\*\*P:+XU+_+`+,,',,,A,*b-
l-5y-P-B-P-)-
X(.P.`../P/'c/4|/'/)/4/)//M/\/PQ0X0P0=0'040=1'1P1P1)014?1PG1PM1)\111:11:1P1P11M92PA2Pq2'24222
2C2'3)34,3)73>3M3 4`544444A4'4)444)55M(5*a5k555\5\5P6 '6\T67`.77'747)77M7'
8)%84a8f8:8888A8\8\8\8PV9P\9)l9 9P:`':Y::P;'i;4;';);4;);;M;\;Ps< <P<=='=4-==I='W=P_=Pe=){=4=P=P=)===:
>>:>>PF>PM>T>M>P>P8D$0<HT`lx ,8DP\ht
,8DP\ht(4@LXd.symtab.strtab.shstrtab.rel.text.rel.rodata.rodata.str1.1.data.module_license.bss.moddeps.modname4
> @D[H)?
% @t12C]
@MFMVM[MKdCNHN XTwm
ELF>@@
Hy$HHq,uHDDL@P4Et2;P u-
HPHHHH9uHHPMtCIxHp2MHP$tIHLHHHAHxHDH:HHHwxHPHHvhHH@$LHL@$HP,P
P4H)HPHPHt#HzLHHLHPLL111DEtH<tD
HUHAUIATASI|$APHu1L`HH@HpXIEH8uCHu1Ht,xHtHHHH9u6HH'HHHtH
HHH
1Z[A\A]]HUHAUATSHHHHEHIHILLLEHH1IAHHIHtJCt2ww4HHs1AuHssL1AHH[A\A]]HUHATSH8HHt
L'LH111HHHHH0HH8HH;H11H;[A\]tH1HFHUHAVAUIATSHu&HHA[[[A\A]A^]HH8uII<$uH1I}HHHLw@M
94$s=HI$LAYHAZ1[A\A]IA^]AHH}H0LHHL9tDHH}H;u!IU1HH=I$1H)HH<HH1ZY[A\A]A^]HUHAVIAUAT
SHt9HH8uH8u%H1H[A\A]A^]uHI>HIHtIHx@uHAHNHH8LHLI8tH
HLA[A\A]A^]HUHAWAVAUATASHHHt H8t+H1HH[A\A]A^A_]Eu'H1H1E1NH;
HIHtLh@1M#HA}HcHHMcHLHLL9II
LAIH@Mt+I9s@ t
uH8"uH@IA?#t}=LAHtmA?tdHHx"HMtHHEHL1HHHt9HuHEHH}HtMtM.HHMtHLH[A\A]A^A_]HUHAWAV
IAUATASHHhI>H1HHEu"H1H<H; HIHHIIEHuHLHH3LIHHHHxHE1LIHLI$^AG
LH%HHMOHI$E1H31LHtMAW4HLH9s<Iw'PAI9rI@PH9sHAH
LEtH3@tI$H8I$HHuHI}H)HH}HE1E1HxHI+$LHHRH8?HI$IHHxI?HLHHH8HIW 8uH
H1%HHLHHMOHI$E1H31LHtCAG@Hk8LH9s2w#HB%H9sH@HB(H9sHAH8EtH3@tI$H8I1LHHM$HIAI$H
HuHI}H)HH}HE1E1HxHI+$LHHuUH8uFHI$IHHxI?H1HHLE1E11LDHDHH@HuLHH@t<H8gHx1HH>HH}tH
EU%f}HtA
%1AH=w"H1HMUHHHHtHHUE1H;Lxt"HtHHHH)HxHHI}HuH)Hu<HH}MLxDHHMLHHLHHHH%HH;tHI>H
h[A\A]A^A_]1tH9uHUHAWAVAUAATISHH(Ht9HH8uH8u+H1HH([A\A]A^A_]EHHHHEHIHILLLEHH1IAH
HIHtK`SXHsLDC\1AH1HI|$HI
AHHEHHHH@HH@H$IHuHH8HI$HH}HS@HHHA}HC@M<$/H}HEHHtHHEHhIHu
A}usWHxOHuH1EEx`HA@XEA@\HHtL
LHLI$HC@HH%I$HHAEH([A\A]A^A_]U1HAUIATHuSHHEHAutH}LHHD[A\A]]U1HAWIAVH}HuAUIATS
HXHAHc]AEHHkuH uHHMHIMHIA}HuHP1H}HUHuHUHAA}DEHUu
DEH|1HDE1HHHIAAMLH t1tLHAHX[A\A]A^A_]HUHAWAVAUATSHHI1IHt!HrtHL1H
HL1HHH0HuIHI<$THH}ILh$IMIHt?CHSI~HsH}ABAFAH}H{HHL)AFI11HI1AFHE111H11HM)HEAIGAGA

GHH
AGHH0Ew H
AG HHuAGI$H]H1HH0He[A\A]A^A_]HUHAWAVAUATSHHPHHHHtY8tTH1HIM
L11HLAHH11HAEHHHH}HHEE10HPDXH\EfEfdHHHPEgEjEhEkEiElHt0HHH1H8IE1IHtHAHDHk\HIHuHb
D HAEIHtHpHHk\I|Ak\LHLHRHH(IE1E1IHt$HJtNd!I Nd!IHAHHuII>H8IcH8ILHHH}M?N
HE(IIMt]LH(IH)8IwL0ADAGIWAEBAELAMoM?H(L0j
HujAI>AHY^HH}H}IHE111I11HHD}1D}EAEAUAE1AE8AHEeH
AEHH0 HuH
HAEH1I>H0He[A\A]A^A_]HUAHHAWAVAUATISHHHHHDH(HH;8u"H;/HLhHupL+kH HHHH8HHH8tH
Hx1PHHLHOIIAHP1AID$t;1HID$HHAHAID$1HIILHA1IA%ID$HHHLHIHu!H1HHAA1HAIA
H?,u>H1HHAAtHHAIHAI~
@v"H&1HNH1HHH0H8HLg(MHGAHtxuDo IT$(E1HHt
LxH@(ID$LHW(1H8H@HHH841Lg(H\D\L1HPH@(Hu@LH`HHIDI@ID$HxHh@HpHHHA4H\
A 1HID$0Ht}HHxHu>@HHfXfA+I|$(uHID$0HxtA$D
HAHHHH1HHH[A\A]A^A_]HUHAWIAVAUATISH8HuHHHUPA$JHGXH=HEE1IKHtxIHAH}HHHIuDHAH
E
HuHEHHHUr@v(HIIrHza D IG1H}x`HIGHxhHH}HHt&H1H-
1HE1HuIHxH}AAwH}%?,u0H1HuH}AH%E1DEDHUHuEHA$ 2HuEHEA$$Hu}Hu-
H1HHH8[A\A]A^A_]UT1HHAWAVH|AUIATS1HET|EHIMtQI<$ LHu.I<$ t$IH
AI|$IAJ\3HMd$0HtHHHH)H8HH111HH1Ht!HqtHT2H HT2HH
HHHHH)IA?tH0IHHH8IUH8HQH8HMuIHLI]L(HHH; HHH3~ H
H(IAH(HH(IHHHvH(H(=HsAH(HH(HDH(H[07LL9(tH(HXDuH8HLHIMAPIpHHpttu+UAA?tHpTA?IUtHPDP?I
@L HHH(HHL H(IIHH)A?t
HHHHMH9L)L)D]IHL)LIE11HEHA?I1H8AA`jI?j H0H^_H0HH0IHE111H(11HPH01HHL)LLL H H 1IIL$LH
HH=uH(HpH@HH8H8HHHH H H`AE@AGIEAGH1H8HH@X1 AH8AxH0j
I?HjZYH0HH0IHE111H11HI|$$TH|H8 H<H8PA$
ADADHH1HIT$$H0A\$HADEADIEAD$
H1I?H0He[A\A]A^A_]HUHAWAVIAUAATSHH8Hu/LEDMHtHXIH}HILIDIHAHPAEH8tQHEH}HEEHEAHu
PAHuAHu8H}AHuPAusHuAu^HuAuIE1E1A9~I<HAEdEDHuHtZHE1HEIIA9~ I4LAI<HAL
L`A$H}HtEEH8[A\A]A^A_]HUHAWAVAUAATISH8Ht9HH8uH8u+H1HH8[A\A]A^A_]EuH1GI<$HIHHHH@
HIHuHH8HIHH}HS@HHHA?DIL$IEtILUI|$HHHMHMLUuIDILLPAEEDK@MLHUI<$uIHC@HH%IHHAH
8[A\A]A^A_]HUHAWAVAHAUIATSHHHLDHIHILHI8M 31I}AVHLHHMIMEAAHHEE)H%
I}HHH;IULHH8Hu
HHuIADHuADHuA|H1IAHHtMHHt+H@(Ht"HP(D
HtED"AAAAAHAAH1;H1AIHHHHHtiHx@tbHHxHuDHuLS@u6H}Ht-
1HH}HHAAHA1HC,HHH[A\A]A^A_]UHAUIATIHSHPHL1IIHHL1IIHHHL1IIHHHE11HHHHHE11IHHHHLE
11HHHLE11HHHE11HHHH1E1HHHHHHLHZ[A\A]]UHSHPHH8HH8HH8HHH8HH8HH8HH8HH8HH8Z[H]H
UHAVIAUIHSLHH}H}HtNHHLH9t5u*HLHH[A]A^]1H[A]A^]UHAWIAVAUIATISH(Hu1H}AHH}4LIAH4tC
H?HUH(1H[A\HA]A^A_]A<$ELFuA|$uA|$tHA|$t+HH(1H[A\A]A^A_]HuLHAt$.}HIEHtAt$
H}AHuH]AT$.IuUH}AAL$.HEHH9t3Hu#HU1HHH([A\A]A^A_]U1HAWAVAUIHMATSHHHhHhHXHUHXH
EHHtH}HLe4HuHULtLH9sxt'HH1HMPHHuHDpPHIAD`LAD$dADAEIHD`HADHH}DxPHCD<HhI|D3AHt`
DHHhIHPHAHPH9upHdLHPHhAHPHu*DdHBHhHPHLAL9uD`E1dHXHHHP;MHHHt
LE9rXDC1HHHIDEAHuHu4HxHuH|hH}Hhu|I]H[A\A]A^A_]HUHAWAVMAUIHMATSHDM
HUH`1HHH`HuIuYHxH}H8HEH|H}HPH}xHPHHH1H9sDAEtAtDAL9IBH4I}IH9HB|HHuHHHHLHHsHH}Lh
LPHXExHPHI9EOEAGPAG
HDhHHIP1AAZEGAWYt8HXLI+HAOH`HIuHt)HXLI+>1HLHHAGAWHLH9hHChHhEIHXLI+1IuA4H`IHAH
hM\$4MHXDxII9H`LBELI+LhHLIuALhMIDxHXDD|H`D)EELELMLI+LhHIuADI}MLhIMD|HDD)EELHMME
)HH}u#IUH`LHHHHe[A\A]A^A_]HUHAWAVAUIHxATSHHH@1HhH@HxHhHUt!HHxHtH}HLxu(UMtHI<I9

sAt%IhLHhAWAGHu8IHP@X8\X\HHD4HHIEHHHHH`HHHH}IH4HuH`EHH4EEA1fCLC
H"HCUtLH9saH0HHAH0I9uEt4#HP1H9uEt\D4CCEHHAwHhIAHtI8HHhIH8AH8H9uGHPHhpAHunDX\HhH4
LAL9t1u>H@HHHuHhLHhu!HHH`HHIUH[A\A]A^A_]U1HAWAVAUATSHHHHUH@HMHEHHpH`LXtH}A
H}HuHH}u#UHuHH9sxtHHHPIIDpTH$HPH@<8ATHhHAHxHDHpIAHtUHhHxIHpAHhH9tHx8HhHAIHu
Hx"<HpAHu!HxALAHHhHpLAHhH9tYHxALAHH`H1H[A\HA]A^A_]LxE11xD)T9sAFufA>t_LHpHIAHpA>H
IDLHpAHpMDHtMu.PIlHtMuHxIIAt>HxALAH1H[A\HA]A^A_]JHXHxHBHHH@%H)HXHHHHBAGH@%H)
HXHHAALAH[A\A]A^A_]UHAWIAVAUIATISH(Hu1H}AHH}@LIAH@tCH?HUH(1H[A\HA]A^A_]A<$ELF
uA|$uA|$tHA|$t+HH(1H[A\A]A^A_]HuLHAt$:H}HIEHtIt$(H}AHuH\AT$:IuHUH}AHAD$:HEH9t3Hu#HU1HH
H([A\A]A^A_]HUHAWAVAUIHxATI1SH<IHUHhIuHxHhL`HuH}H}HuHLxHHHLLH9s%L@
MtHP0HtHL
HH!LHH`HHH)H%HuHLHH}IMHH@EHELI9SMN M:IF0HtJT III!MfEHRHHIP1AH@LH)HA~HPIF
Y^HXIEIvHhHHHHt`HXHPHHhHXH9tXHHHHt!HX1HPHMf
EI<EIMIH`A)I$HH%HI}Hu0@HuHuULU
hHxHhHe[A\A]A^A_]U1HAWAVAUATSHHHXHXHPHUHPH8HhHhHAHpH}HALh@HuHAuHpLHHLH9sxt'
HH1HmP(HHHuHLh H0HH8IIDMt HHH(CD5HH@H8H@HH
HHHIHAH}EHLx0HH@HXLIHEL+AHtOHLHXHHL9umHE(HXL2H@AH@HuHD89LbLHXHLL9uIdHD8EH
P1HHH;LLt"HHAHHHDHL9r[LC1HHHILEAHuHAu7HxHAuHuAHhHEuHEH8HH%HHD[A\A]A^A_]HUHA
WAVAUI1ATSHHHhHhH@HUH@HpHpt!HHpHxH}HLpu*uHxMHHI<I9sAt%IhLHhAW(IG HuH8IHPH@
H08\0\HHD@HHIEHHHHH`HHHH}IH@HuH`EHH@EEAfC11HCLSHC@UHxHLH9seH(HHAH(UI9uHxHH
@$HP1H9uHx\HHD@HCHHCHIwHhIAHtJ8HHhIH8AH8H9uHHPHhHpAHunD0\HhH4LAL9t1u>H@HHHuHh
LHhu!HHH`HHIUH[A\A]A^A_]U1HAWAVAUATSHHHHUH@HMHEHHpHhL`t
H}ADH}HuHH}Au%uHMHHHHH9sztHH%HZ B(ILrHXHZ8HHPHXH@
H8HH0ADXLHxHHpDHHtCHxLHpIAL9tHxD0LHHu
Hx+8HpHHu"HxAHAHD8HpLHAL9uDX1E1E1DPLxsHxAHAHD8EHhH1H[A\HA]A^A_]AD$tPDID9rA<$tX
HHHDhDpA<$HHMDHDpDhXMDMoMf
MtMuHxIII}t>HxAHAH1H[A\HA]A^A_]IFH`H@HxHIFHH%H)H`HHHHAIEH@%H)H`HHBAHAHD[A\A]A^
A_] @12abcdmqsvxzrh@abcsdrh @ DhaCcdgmnpqrsvsizeaddrtypename %-18s %-18s%14s%14s
%-18s 0x%08x 0x%08x
filename expectedyou need to
load the kernel firstno kOpenBSD loadedyour kOpenBSD doesn't support ramdiskyour kOpenBSD supports
ramdisk only up to %lu bytes, however you supplied a %lu bytes onepremature end of file %sonly FreeBSD
supports moduleonly ELF kernel supports moduleonly FreeBSD supports environmentkFreeBSD.%syour CPU does
not implement AMD64 architecturekern_start = %lx, kern_end = %lx
bsdloader/i386/bsd.cinvalid arch-dependent ELF magicinvalid a.out headerload address below 1Mno NetBSD
loaded %-18s%14s%14s%14s
%-18s 0x%08x 0x%08x 0x%08xknetbsd_module_elf%u entries in smap
textgfxpayload%s;800x600800x600Booting in blind modecompcmdlen too longnetbsdunknown disk type nameonly
device specifications of form <type><number><lowercase letter> are supportedonly com0-com3 are
supportedkFreeBSD./boot/zfs/zpool.cacherawno FreeBSD loadedtype=elf64 kernelelf kernelzfsgzioLoad kernel of
FreeBSD.FILEkfreebsdLoad kernel of OpenBSD.kopenbsdLoad kernel of NetBSD.knetbsdLoad FreeBSD
env.kfreebsd_loadenvLoad FreeBSD
kernel module.kfreebsd_moduleLoad NetBSD kernel module.knetbsd_moduleLoad NetBSD kernel module
(ELF).Load FreeBSD kernel module (ELF).kfreebsd_module_elfLoad kOpenBSD
ramdisk.kopenbsd_ramdiskwdfdsdcdvndrdno-smpDisable SMP.no-acpiDisable ACPI.asknameAsk for file name to
reboot from.haltDon't reboot, just halt.configChange configured devices.kdbEnter in KDB on
boot.minirootquietDon't display boot diagnostic messages.singleBoot into single mode.verboseBoot with verbose
messages.debugBoot with debug messages.silentSuppress normal output (warnings remain).rootSet root
device.DEVICEserialUse serial console.[ADDR|comUNIT][,SPEED]wdXYcomUNIT[,SPEED]dualDisplay output

on all consoles.cdromUse CD-ROM as root.Invoke user configuration routing.gdbUse GDB remote debugger instead of DDB.muteDisable all boot output.nointrpauseWait for keypress after every line of output.dfltrootUse compiled-in root device.premature end of file %sinvalid arch-independent ELF magicinvalid arch-dependent ELF magicno symbol
table_DYNAMICdynamic = %llx
bsdloader/i386/bsd32.cloading section to %x, size %d, align %d
elf modulerd_root_imagerd_root_sizeunexpected size of rd_root_sizepremature end of file %sinvalid arch-independent ELF magicinvalid arch-dependent ELF magicloading section to %x, size %d, align %d
bsdloader/i386/bsd64.celf obj moduleno symbol table_DYNAMICdynamic = %llx
rd_root_imagerd_root_sizeunexpected size of
rd_root_sizeLICENSE=GPLv3+aoutbootcpuidcryptoelfextcmdgcry_md5mmaprelocatorserialvideobsd2*4)NEcv&3I_:}4CZlx%B(<PG:r~*"8HWi(7|J>*R0ALi)6VHWsgrub_mod_initgrub_mod_finigrub_strlengrub_netbsd_load_elf_meta64grub_efi_finish_boot_servicesgrub_aout_get_typegrub_puts_grub_strncmpgrub_strtoullgrub_efi_system_tablegrub_env_update_get_sortedgrub_strcpygrub_elf_is_elf32grub_loader_is_loadedgrub_strrchrgrub_ns8250_hw_get_portgrub_dl_loadgrub_elf32_load_phdrsgrub_relocator32_bootgrub_freebsd_load_elfmodule32grub_elf_filegrub_xasprintfget_virtual_current_addressgrub_video_set_mode_gcry_digest_spec_md5grub_memmovegrub_device_opengrub_relocator_alloc_chunk_aligngrub_elf64_get_shnumgrub_disk_readgrub_unregister_extcmdgrub_loader_unsetgrub_dl_refgrub_mmap_iterategrub_file_seekgrub_relocator_unloadgrub_errnogrub_memsetgrub_openbsd_find_ramdisk32grub_register_command_priogrub_elf_is_elf64grub_video_get_driver_idgrub_mmap_get_lowergrub_mmap_get_uppergrub_freebsd_load_elfmodule_obj64grub_printfgrub_unregister_commandgrub_file_readgrub_freebsd_add_meta_modulegrub_elf_closegrub_print_errorgrub_zallocgrub_strcmpgrub_strchrgrub_elf64_loadgrub_mallocgrub_relocator64_bootgrub_file_closegrub_file_opengrub_real_dprintfgrub_freebsd_load_elf_meta32grub_callocgrub_freebsd_load_elf_meta64grub_netbsd_load_elf_meta32grub_device_closegrub_elf64_load_phdrsgrub_openbsd_find_ramdisk64grub_fs_probegrub_relocator_newgrub_crypto_hashgrub_errorgrub_video_get_info_and_finigrub_cpuid_has_longmodegrub_freegrub_dl_unrefgrub_register_extcmdgrub_env_setgrub_gettextgrub_memcmpgrub_loader_setgrub_verify_stringgrub_elf32_get_shnumgrub_elf32_loadgrub_env_getgrub_strtoulgrub_bsd_add_metagrub_aout_loadget_physical_target_addressgrub_elf32_get_phnumgrub_relocator_alloc_chunk_addrN<v)phh p
3RCS
b{2p4,?pN5pERh_kxO(KK]K!2N?\)y>K4)>K+?*Qj]+HK?>.)<N[j1v]hK
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Z2`o9)-?R`m^48'XO`v>L&$T<d)* @ZDNbp^h{ 0/8WX)N,.KLZ7)`9<X)iZNZp ?Mp^3 Kb\| 0/
3An)?#DJ*eoZ[SgY)3DKU"SZ`J9H E U T)
!@!)Q!d!~!!!Y!#!"*K"U"Se"uv"K"Y")"#ZL#Zn#~#T##`##)#*#P:$ST$$$$$Zp%>%U%b%z%^%%%%S&
&3&f&&&&p&Q'k""*(G(](\{((*%)2)a)r)=)))* -*D*d*w*T*H**.+<+9F+[+Z+a,Lp,),,U,-]!-+-:-I-HZ-Ky--?-)---^-
.4..M.W.S.5.>../)(/2/F/P/d/////5/?00C%0AG0Z0P00E
1H61HQ1_191
1H1N1711#1T1T1)2*252P@2Q2[2e2.o22`22 2-2@226212M282,2U33g30+353x?3,I3S3(g3q3{3
33333h333%334<
4414#<4@K48Z40i43s4(4 444444'5)54-
5)G5JQ5Kv5'545)5J5K#6c76L6Ki6V6B6)6)7J7Kn7n57V7Z77Kb8^}88'84#9)d9)9J9K9999999@:Z9:Zf:N:n5;V=;]
;^;Q<b<l<v<@<4<*C=4p=4=4)> F>5_>N>A>n5?N?)-
?Vu?N@^@'@A'#A4[A)A)AJAKAZANWBn5BVBNBNB<JC'jC4C)
D)IDJVDKD D9D+ EN)ENXE8 eEKE';F4NF)qFX ~FKFq F FKF!GB7G)nG)GX GKGEH!H^H I +I 5I ?I@I'I)I4I)IX
JK'J*eJ ~J5JZJN:KE\K!KZK
KK[L^yLL'L4M).M4BM
NM)rMX |MKM9M
M M M@NZ3NZ`NNNENNO)&O!pONP^P%PQ"Q4`Q)Q)QX QKQZQN\RER!RNRNS<SS'uS4S'S)4T)_TX lTKT/
T9T=
T98UNGUNvUJ
UKMP S0VpY]`gt|0@Xh F0MHdXlp`pFM(8@(P`h-=B0@Xbhh| 0HXp$-
FMdl.symtab.strtab.shstrtab.rela.text.rela.rodata.rodata.str1.1.data.module_license.bss.moddeps.modname
@V@x?+`V8 &@32]j
BhHhX h] hGfghph XqXo

1.435 gopsutil 3.23.9

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

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

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
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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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other library
facilities. This must be distributed under the terms of the
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.440 flexlm 10.1.3

1.440.1 Available under license :

[core]
repositoryformatversion = 0
filemode = true
bare = false
logallrefupdates = true
[remote "origin"]
url = https://dscm.esl.cisco.com/git/153/comp-15304913.git
fetch = +refs/heads/*:refs/remotes/origin/*
[branch "skywalker_com"]
remote = origin
merge = refs/heads/skywalker_com

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[core]
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[branch "h_cn12k"]
 remote = origin
 merge = refs/heads/h_cn12k
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<nxbld@cisco.com> 1571052915 -0700 fetch origin +refs/notes/*:refs/notes/* +refs/heads/*:refs/remotes/origin/*:
storing ref
6317bf6b870ced4150254b3da3f7958fa95f2ae2
0000000000000000000000000000000000000000 caaa75e0b83f705095b8e9759a6c2468a1e07e98 nxbld
<nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15304913.git
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bare = false
logallrefupdates = true
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fetch = +refs/heads/*:refs/remotes/origin/*
[branch "skywalker_com"]

remote = origin
merge = refs/heads/skywalker_com
0000000000000000000000000000000000000000 06bd77b5d7b50a7afdce738674ec142c655701bf nxbld <nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301478.git
72f82a676e4e8a7e8afdf779f565129030a3b2d3 0000000000000000000000000000000000000000 06bd77b5d7b50a7afdce738674ec142c655701bf nxbld <nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301478.git
06bd77b5d7b50a7afdce738674ec142c655701bf 8c2f854e2708bbf9c727a1c92ef848dec8793c10 nxbld <nxbld@cisco.com> 1571052911 -0700 checkout: moving from skywalker_com to skywalker_com/37
DIRC
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0000000000000000000000000000000000000000 72f82a676e4e8a7e8afdf779f565129030a3b2d3 nxbld <nxbld@cisco.com> 1571052914 -0700 fetch origin +refs/notes/*:refs/notes/* +refs/heads/*:refs/remotes/origin/*: storing ref
8c2f854e2708bbf9c727a1c92ef848dec8793c10
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c3da9d643002251226ecb9ff51aec487cca6a3e6 6317bf6b870ced4150254b3da3f7958fa95f2ae2 nxbld <nxbld@cisco.com> 1571052905 -0700 checkout: moving from h_cn12k to davis_com/4
#!/usr/bin/env bash
MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
This script will read the license file into memory, strip out the copyright, and then
generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
 local raw_license_text=$(<"$FILE")

 # Convert to lowercase
 local lowercase_license_text="${raw_license_text,,}"

 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

```
 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
 echo "Please provide a FILE as an argument."
 exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
18b34bd8ae4af33255a6f417361e11786b620994  'refs/notes/acme' of https://dscm.esl.cisco.com/git/153/comp-
15301478
a9e968e0393d063a27fb613ebd8013c3cfd23235  branch 'a1_5_id_integration' of
https://dscm.esl.cisco.com/git/153/comp-15301478
afe8550a2a99bd55b610046fdca6d0e8e16e47eb  branch 'acme_empty' of https://dscm.esl.cisco.com/git/153/comp-
15301478
308364ff4b363199edaa4c72c54be421e6eafab9  branch 'airstrike_dev' of https://dscm.esl.cisco.com/git/153/comp-
15301478
d951635e6599d6d825f6f7d76e00b0d980ffd9fd  branch 'airstrike_platform_dev' of
https://dscm.esl.cisco.com/git/153/comp-15301478
81f8d38112706cfe228a221cdd72a9588062b139  branch 'albacore' of https://dscm.esl.cisco.com/git/153/comp-
15301478
bd8ee01e51eba6d8807f386f7d3a10bc5cc9f65b  branch 'amazon' of https://dscm.esl.cisco.com/git/153/comp-
15301478
cb09ca28abb6bb79ae7fa12660ddfdb4e22f673d  branch 'andaman' of https://dscm.esl.cisco.com/git/153/comp-
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0d9988b3de90d054e1666f39f9e474563369c7c7  branch 'ankaa1_4' of https://dscm.esl.cisco.com/git/153/comp-
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8e974fd806e21178acbf71b1a40a25e835f3aa6a  branch
 'ankara' of https://dscm.esl.cisco.com/git/153/comp-15301478
c8bf2a2ce2ecd0a25787ac002768f580bca55a3a  branch 'aons_foundation_fea' of
https://dscm.esl.cisco.com/git/153/comp-15301478
f0153cc8691a03ddfeb9fe09487a2ab24a92bb24  branch 'aons_foundation_phase2' of
https://dscm.esl.cisco.com/git/153/comp-15301478
209f245ff9d10439d57457153c1c53eca6b14a0e  branch 'ashfield' of https://dscm.esl.cisco.com/git/153/comp-
15301478
```

cc56533d43f9e39a60f2a7bfb62d8b1938bfd530 branch 'au' of https://dscm.esl.cisco.com/git/153/comp-15301478
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0e2abdde0112e8faf7fe7376575ae41c0d7fac3c branch 'auriga_413_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
4e57527e61c55498dde96981a2763819df7559b8 branch 'avalon' of https://dscm.esl.cisco.com/git/153/comp-
15301478
5eba6175fe77386b88338a17e2d00642c831d8b2 branch
'avalon_nx_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
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02c73c9c0f8ea32a343152ab5c2ea053b0c412ba branch 'bender' of https://dscm.esl.cisco.com/git/153/comp-
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15301478
c6a472ed4cbdfe3e7a64978035aeaa248895f965 branch 'beverlyhills' of https://dscm.esl.cisco.com/git/153/comp-
15301478
4d00b9d06b0ea7ee6fda3dd73c6b869d67a5dded branch 'beverlyhills_com' of
https://dscm.esl.cisco.com/git/153/comp-15301478
faa7f394239f28a25f6e5d8196b3ee28413b9d67 branch 'beverlyhills_rel_8_2_3_com' of
https://dscm.esl.cisco.com/git/153/comp-15301478
497711a3e17bf818e6903106fe026715895514dc branch 'beverlyhills_rel_8_2_4' of
https://dscm.esl.cisco.com/git/153/comp-15301478
9cb4a4d0c61746e528a5e20645a7512c7e9ea776 branch 'beverlyhills_rel_8_2_4_com' of
https://dscm.esl.cisco.com/git/153/comp-15301478
c9e422c3edab989cd757e6eb76c57fdad99a61b6 branch 'bl' of https://dscm.esl.cisco.com/git/153/comp-15301478
8eccefee47743483aa4ff7e0a5907eb3ce03875d branch
'bogota' of https://dscm.esl.cisco.com/git/153/comp-15301478
a5b7f1d055b928bdfaf21ae63d201ad6a7d87067 branch 'bouncer_main_31' of
https://dscm.esl.cisco.com/git/153/comp-15301478
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https://dscm.esl.cisco.com/git/153/comp-15301478
cd09c803cf7b3cb2d7802156ff44377aa66aa93d branch 'brixton' of https://dscm.esl.cisco.com/git/153/comp-
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15301478

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15301478
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of https://dscm.esl.cisco.com/git/153/comp-15301478
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of https://dscm.esl.cisco.com/git/153/comp-15301478
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of https://dscm.esl.cisco.com/git/153/comp-15301478
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15301478
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:0$jbusT9Qlicmgr/module.mk]]h0]]h0:3"cnSNFrZ
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1.441 heimdal 1.0

1.441.1 Available under license :

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1.442 unzip 3.0

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  David Kirschbaum, Johnny Lee, Onno van der Linden, Igor Mandrichenko,
  Steve P. Miller, Sergio Monesi, Keith Owens, George Petrov, Greg Roelofs,
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This file contains some details about the copyright history of
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the system specific ports.
Please read LICENSE first to find out what is allowed to do with
Info-ZIP's UnZip code.

- -

There are currently two explicit copyrights on portions of UnZip
code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans'
MacBinaryIII coding code (for the MacOS port).. These copyrights
are discussed in more detail below.

All remaining
code is now (starting with UnZip version 5.41) covered
by the new Info-ZIP license. For details, please read the acompaning
file LICENSE. The terms and conditions in this license supersede the
copyright conditions of the contributions by Igor Mandrichenko
(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket
UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompresseion
core routines, previously put into the public domain). All these
Info-ZIP contributors (or "primary" authors) have permitted us to
replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip
are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete
core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.
The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

```
  * MoreFiles
  *
  * A collection of File Manager and related routines
  *
  * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
  * with significant code contributions by Nitin Ganatra
  * (Apple Macintosh Developer Technical Support Emeritus)
  * Copyright  1992-1998
Apple Computer, Inc.
  * Portions copyright  1995 Jim Luther
  * All rights reserved.
  * The Package "More Files" is distributed under the following
  * license terms:
  *
  *         "You may incorporate this sample code into your
  *          applications without restriction, though the
```

```
*       sample code has been provided "AS IS" and the
*       responsibility for its operation is 100% yours.
*       However, what you are not permitted to do is to
*       redistribute the source as "DSC Sample Code" after
*       having made changes. If you're going to
*       redistribute the source, we require that you make
*       it clear in the source that the code was descended
*       from Apple Sample Code, but that you've made
*       changes."
```

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Info-ZIP license, they do not add further restrictions.

The following
copyright applies to the Mac OS "macbin3" decoding code
(extra field compatibility with ZipIt):

```
*  MacBinaryIII.h
*
*  Copyright 1997 Christopher Evans (cevans@poppybank.com)
*
*  Basic encoding and decoding of Macintosh files to the
*  MacBinary III spec.
* ---------------------------------------------------------------------
* This source is copyrighted by Christopher Evans (cevans@poppybank.com)
* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
* homepage of Leonard Rosenthol  leonardr@netcom.com)
```

This copyright note does not contain any usage terms. So, we assume
that this code is freely reusable until we are proved wrong...

The remaining copyright notes have been superseeded by the new
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The following copyright applies to the full-featured unreduce.c
(now distributed separately):

```
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*
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* If you use this in your own program you must distribute source code.
* Do not use any of this in a commercial product.
```

Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default
no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

The following copyright applied to most of the VMS code in vms.c, distributed with UnZip version 4.2 and later:

```
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  * are included unmodified and that this copyright notice is retained.
```

The following copyright applied to the new version of unshrink.c, distributed with UnZip version 5.2 and later:

```
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  * any purpose whatsoever, subject to the conditions noted in the
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  * condition:  namely, that my name not be removed from the source
  * code.  (Other names may, of course, be added as modifications
  * are made.)  Corporate legal staff (like at IBM :-) ) who have
  * problems understanding this can contact me through Zip-Bugs...
```

The following copyright applied to the Windows DLL code (windll/*),
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```
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  * copyright notice is retained.
```

The following copyright applied to the Windows
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UnZip," distributed with UnZip version 5.3 and later:

```
  * All the source files for Pocket UnZip, except for components
  * written by the Info-ZIP group, are copyrighted 1997 by Steve P.
  * Miller.  The product "Pocket UnZip" itself is property of the
  * author and cannot be altered in any way without written consent
  * from Steve P. Miller.
```

The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBS in the source distribution for a much
more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch],
explode.c) was originally written by Mark Adler who submitted it
as public domain code.

1.443 dbus-python 1.2.0

1.443.1 Available under license :

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1.444 golang-lru 0.5.4

1.444.1 Available under license :

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* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/jce/ECDH521.java
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* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/DHECN.java
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* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/DHEC384.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/SignatureECDSA.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/KeyPairGenECDSA.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/jce/KeyPairGenECDSA.java
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* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/jce/TripleDESCTR.java
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* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/jcraft/HMACMD5.java
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* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/CipherNone.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/ChannelDirectTCPIP.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/ServerSocketFactory.java
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* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/ProxySOCKS5.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/Buffer.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/PortWatcher.java
*
/jsch-0-1-53-sources-5-jar/com/jcraft/jsch/jce/TripleDESCBC.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/RequestX11.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/jce/HMACSHA196.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/ChannelSftp.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/jce/KeyPairGenDSA.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/JSchAuthCancelException.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/KeyPairRSA.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/SocketFactory.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/Channel.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/SftpProgressMonitor.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/ChannelX11.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/DH.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/JSch.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/DHGEX256.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/RequestPtyReq.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/UserAuthKeyboardInteractive.java
*
/jsch-0-1-53-sources-5-jar/com/jcraft/jsch/UserAuthPassword.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/KeyPairGenRSA.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/KnownHosts.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/SignatureRSA.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/HASH.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/UserInfo.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/UserAuthPublicKey.java

* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/jce/SignatureDSA.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/KeyExchange.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/jce/MD5.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/ChannelForwardedTCPIP.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/KeyPairGenDSA.java
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* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/DHG14.java
* /jsch-0-1-53-sources-5-jar/com/jcraft/jsch/jce/HMACMD5.java

1.446 open-pegasus 5.0.6

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

Found in path(s):
* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/InfTree.java
* /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

1.456 html5lib 1.0b3

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1.457 sqlite 3.45.0

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1.458 mtd-utils 1.3.1

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1.459 gdb 5.14

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

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The reason we have a separate public license for some libraries is that
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program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is

analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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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

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application. Therefore, Subsection 2d requires that any
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function must
be optional: if the application does not supply it, the square
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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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This option is useful when you wish to copy part of the code of the
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of
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file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.475 logr 1.2.3

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Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD
==

   1. Berkeley Packet Filter (BPF) requirement
   2. Running Wireshark as a non-root user

For general installation instructions, see the INSTALL file, along with
the Developer's Guide located at https://www.wireshark.org/docs/ and
in the docbook/ directory. Additional BSD specific notes and requirements
follow.

1. Berkeley Packet Filter (BPF) requirement

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

  ls -l /dev/bpf*

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

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

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

2. Running wireshark as a non-root user

Since the bpf devices are read-only by the owner (root), you normally
have to run packet capturing programs such as Wireshark as root. It is
safer to run programs as a non-root user if possible. To run Wireshark
as a non-root user, you must change the permissions on the bpf device(s).

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

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

where "mode and permissions" can include clauses such as

 mode {octal permissions}

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

 user {user}

to set the user who owns the device, or

 group {group}

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

 devfs_system_ruleset=localrules

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

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

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

1.487 shadow 4.2.1

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1.488 shadow 4.6

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively 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.>
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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
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mouse-clicks or menu items--whatever suits your program.

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

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

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BSD-style without advertising clause

1.491 fdisk 2.32.1

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1.492 hd-parm 9.56

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1.494 smart 1.4.1

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1.495 nginx 1.26.2

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1.496 kr-fs 0.1.0

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1.497 packaging 16.8

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1.498 wsgiref 0.1.2

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Version: 0.1.2
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Author: Phillip J. Eby
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Description: This is a standalone release of the ``wsgiref`` library to be included in
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1.501 color 1.13.0

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1.502 mitchellh-copystructure 1.2.0

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1.509 grpc-go 1.57.2

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1.510 fsnotify 1.6.0

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1.511 easyjson 0.7.7

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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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```

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* M. Welsh, 6 July 1996
*
*
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1.514 acpica 20180629

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1.515 pysocks 1.6.8

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1.516 x-term 0.13.0

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1.517 golang-protobuf 1.30.0

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1.518 structured-merge-diff 4.2.3

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1.519 multierr 1.6.0

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1.520 gnostic 0.5.7-v3refs

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1.524 swag 0.19.14

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1.527 pty 1.1.17

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1.528 wcwidth 0.1.7

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1.531 prettytable 0.7.2

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1.533 cffi 1.15.0

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1.535 procfs 0.8.0

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procfs provides functions to retrieve system, kernel and process
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1.537 tenacity 7.0.0

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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
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2.3	2.2.2	2002-2003	PSF	yes
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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
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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
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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
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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,
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1.539 ndg-httpsclient 0.5.1

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1.540 jsonreference 0.20.0

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1.541 kubernetes-utils 0.0.0-20221107191617-1a15be271d1d

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1.543 pyopenssl 18.0.0

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1.544 go-urn 1.2.1

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1.545 pycparser 2.18

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1.546 x-sync 0.0.0-20220601150217-0de741cfad7f

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1.547 rich 12.6.0

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1.551 x-exp 0.0.0-20230314191032-db074128a8ec

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1.552 go-secure-stdlib-parseutil 0.1.4

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1.555 go-plugin 1.4.4

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1.556 gorilla-websocket 1.4.3-0.20210424162022-e8629af678b7

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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

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==========

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distlib has started off using some of the code from distutil2.

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```
{
 "testfiles": [
   "test/*.uts",
   "test/scapy/layers/*.uts",
   "test/contrib/automotive/*.uts",
   "test/contrib/automotive/obd/*.uts",
   "test/contrib/automotive/gm/*.uts",
   "test/contrib/automotive/bmw/*.uts",
   "test/contrib/automotive/xcp/*.uts",
   "test/contrib/*.uts"
 ],
 "remove_testfiles": [
   "test/linux.uts",
   "test/windows.uts",
   "test/contrib/automotive/ecu_am.uts",
   "test/contrib/automotive/gm/gmlanutils.uts",
   "test/contrib/isotp.uts",
   "test/contrib/isotpscan.uts"
 ],
 "onlyfailed": true,
 "preexec": {
   "test/contrib/*.uts": "load_contrib(\"%name%\")",
   "test/cert.uts": "load_layer(\"tls\")",
```

```
  "test/sslv2.uts": "load_layer(\"tls\")",
  "test/tls*.uts": "load_layer(\"tls\")"
 },
 "kw_ko": [
  "linux",
  "windows",
  "crypto_advanced",
  "ipv6",
  "vcan_socket"
 ]
}
```


1.567 idna 10.0.0

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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_tools/_protoc_compiler.cpp
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/support/error_details.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/support/sync_custom.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/impl/codegen/sync_custom.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/test/mock_stream.h
*
/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/fork.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/byte_buffer.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/load_reporting.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/channel_argument_option.h
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/setup.py
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_tools/protoc.py
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_tools/_protoc_compiler.pyx
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_version.py
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/protoc_lib_deps.py
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_tools/command.py
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/singleton.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/shared_ptr.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/fastmem.h
*
/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
1.14.1/third_party/protobuf/src/google/protobuf/stubs/atomic_sequence_num.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/map_util.h

* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/compiler/ruby/ruby_generator_unittest.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/casts.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_generator_unittest.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_helpers_unittest.cc
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/atomicops_internals_generic_c11_atomic.h
*
 /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/platform_macros.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/atomicops_internals_x86_gcc.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/atomicops.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/atomicops_internals_mips_gcc.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/stringprintf.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/atomicops_internals_x86_gcc.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/atomicops_internals_x86_msvc.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/stringprintf_unittest.cc
*
 /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/atomicops_internals_arm_gcc.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/stringprintf.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/atomicops_internals_x86_msvc.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/atomicops_internals_arm_qnx.h

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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/support/stub_options.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/generic/async_generic_service.h
*
 /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/support/slice.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/server_context.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/rpc_method.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/resource_quota.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/slice.h
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/client_unary_call.h
*
 /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/ext/server_load_reporting.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/server_posix.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/security/auth_context.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/byte_buffer.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/grpc_library.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/security/credentials.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/call.h
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/create_auth_context.h
*
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/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/sync_stream.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/string_ref.h
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/generic/generic_stub.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/server_initializer.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/support/status_code_enum.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/support/proto_buffer_reader.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/create_channel_posix.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/support/thd_id.h
*
/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/client_context.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/stub_options.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/rpc_method.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/security/auth_context.h
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/alarm.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/client_unary_call.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/sync_no_cxx11.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/support/config.h
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/opencensus.h

* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/serialization_traits.h
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/call_hook.h
*
/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/support/byte_buffer.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/server_builder.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/server_interface.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/proto_utils.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/time.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/support/proto_buffer_writer.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/support/channel_arguments.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/support/error_details.h
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/extension_set_unittest.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/bytestream.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/compiler/javanano/javanano_enum_field.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/io/coded_stream_unittest.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/io/zero_copy_stream_impl_lite.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/unittest_empty.proto
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/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/once.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/util/internal/error_listener.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/io/gzip_stream.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/unittest_proto3_lite.proto
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_tools/_proto/google/protobuf/empty.proto
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_repeated_message_field.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/compiler/java/java_shared_code_generator.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/descriptor_database.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-

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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/compiler/main.cc
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
1.14.1/third_party/protobuf/src/google/protobuf/stubs/io_win32_unittest.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/unittest_import.proto
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
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*
/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/descriptor.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/text_format_unittest.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/arena_impl.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-

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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
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/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/util/field_mask_util.cc
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/message.h
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*
/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/text_format.cc
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/map_type_handler.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/status_macros.h
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/compiler/python/python_plugin_unittest.cc
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/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_helpers.cc
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/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/common.h
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1.14.1/third_party/protobuf/src/google/protobuf/generated_message_reflection.cc

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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/support/byte_buffer.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/security/server_credentials.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/client_unary_call.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/grpc_security.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/async_generic_service.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/compression.h
*
 /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/src/compiler/node_plugin.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/channel.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/create_auth_context.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/slice.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/ext/proto_server_reflection_plugin.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/src/compiler/ruby_generator.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/support/sync_posix.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/grpc_library.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/src/compiler/csharp_generator_helpers.h
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/impl/codegen/status.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/support/log_windows.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/src/compiler/ruby_generator_map-inl.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/service_type.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/src/compiler/ruby_plugin.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/src/compiler/cpp_generator.cc

* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/src/compiler/ruby_generator_helpers-inl.h
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*
 /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/impl/codegen/sync_posix.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/call.h
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/support/status_code_enum.h
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/impl/codegen/atm.h
*
 /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/src/compiler/python_generator.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/alarm.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/support/atm_gcc_sync.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/sync_cxx11.h
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/method_handler_impl.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/src/compiler/python_plugin.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/serialization_traits.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/support/stub_options.h
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 /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/support/atm_windows.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/server_builder_option.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/support/port_platform.h
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/src/compiler/python_private_generator.h
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/impl/codegen/sync_windows.h
*
 /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/src/compiler/schema_interface.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/support/workaround_list.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/src/compiler/ruby_generator.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/completion_queue_tag.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/server_context.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/async_unary_call.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/byte_buffer_reader.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/call_hook.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/string_ref.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/impl/codegen/atm_gcc_sync.h

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```

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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/census.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/completion_queue.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/grpc.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/server_builder.h

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*
*/
/// If set, grpc is free to use the HTTP GET verb for sending the request,
```

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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/client_context.h

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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_map_field.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_map_field.h
*
 /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/atomicops_internals_ppc_gcc.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_map_field.cc
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/rpc_service_method.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/core_codegen.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/status_code_enum.h
*

/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/impl/codegen/propagation_bits.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/impl/codegen/compression_types.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/src/compiler/node_generator.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/grpc_cronet.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/src/compiler/node_generator.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/health_check_service_interface.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/server_builder_plugin.h
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/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/src/compiler/php_plugin.cc
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/impl/codegen/sync.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/grpc_posix.h
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/resource_quota.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/status.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/grpc_security_constants.h
*
/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/test/server_context_test_spouse.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/create_channel_posix.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
1.14.1/grpc_root/include/grpcpp/ext/health_check_service_server_builder_option.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/src/compiler/php_generator.cc
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/config.h
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/grpc_library.h
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*
*/
/** Signal that the call is cacheable. GRPC is free to use GET verb */

Found in path(s):
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/impl/codegen/grpc_types.h
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* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/testing/zcgzip.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/testing/zcgunzip.cc
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Metadata-Version: 1.1
Name: grpcio-tools
Version: 1.14.1
Summary: Protobuf code generator for gRPC
Home-page: https://grpc.io
Author: The gRPC Authors
Author-email: grpc-io@googlegroups.com
License: Apache License 2.0
Description: UNKNOWN
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
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Found in path(s):
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/PKG-INFO
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpcio_tools.egg-info/PKG-INFO
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1.14.1/third_party/protobuf/src/google/protobuf/stubs/template_util_unittest.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
1.14.1/third_party/protobuf/src/google/protobuf/stubs/type_traits_unittest.cc
* /grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/mutex.h
*

/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/template_util.h
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1.572 pytest 3.4.2

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1.573 tox 0.0.0

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1.574 dpkt 1.9.7.2

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1.578 python-pip 1.5.6

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1.579 go-playground-locales 0.14.0

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1.580 distlib 0.1.8

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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
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3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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==========

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!

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Name: setuptools
Version: 0.6c9
Summary: Download, build, install, upgrade, and uninstall Python packages -- easily!
Home-page: http://pypi.python.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.python.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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1.584 gogo-protobuf 1.3.2

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Protocol Buffers for Go with Gadgets

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

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1.585 simple launcher 1.1.0.14

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A. HISTORY OF THE SOFTWARE
==========

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same

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

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

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 the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(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 direction to make these releases possible.

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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
- Pior Bastida
- Anthony Baxter
- Erik Bray
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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
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.. _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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Platform: UNKNOWN
Classifier: Development Status :: 3 - Alpha
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==========

libcurl can be built to use a fair amount of various third party libraries,
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problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

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