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1.2 unzip 6.0

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All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying 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 decompression 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.

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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.

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- * MoreFiles
- *
- * A collection of File Manager and related routines
- *
- * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
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- *
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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.

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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.

1.3 bzip2 1.0.8

1.4 net-tools 1.60

1.4.1 Available under license :

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1.5 vlan 1.9

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1.6 mod-authnz-external 3.3.3

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mod_authnz_external is based on code from the following sources:

- * Original author: Nathan Neulinger (nneul@umr.edu)
- * Based on code from The Apache Group

* Previous maintainers:

Tyler Allison (allison@nas.nasa.gov)
Jan Wolter (unixpapa.com)

* Past contributors (from CHANGES):

Various unnamed contributors
Karyl Stein (xenon313@arbornet.org)
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1.7 libffi 3.3

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1.8 coreutils 9.6

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Julian Seward, jseward@bzip.org
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@end smallexample

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

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

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

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@c man end

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Version 2.1, February 1999

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Version 3.1, 31 March 2009

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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 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

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!

1.13 nss-ldap 265

1.13.1 Available under license :

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Version 2, June 1991

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Because
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concluded that weaker conditions might promote sharing better.

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

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

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

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

Library into a program that is not a library.

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

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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.

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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.

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1.14 iana-etc 2.30

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1.15 pam-ldap 186

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1.18 pcre 8.45

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1.19 ooid 0.999

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1.20 stringencoders 3.10.3

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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.

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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That's all there is to it!

1.24 python-netifaces 0.11.0

1.24.1 Available under license :

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1.25 glibc 2.35

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative
of the original library. The ordinary
General Public License therefore permits such linking only if the

entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

`@subheading` TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

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

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

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

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

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

it

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

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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

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

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

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

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(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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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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the work with the complete corresponding

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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.

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1.29 log4shib 2.0.1

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1.30 apr 1.7.5

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c,
file_io/unix/mktemp.c, strings/apr_strings.c:

```
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```
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```

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```
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```

From strings/apr_strnatcmp.c,
include/apr_strings.h:

```
strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
```

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From
strings/apr_snprintf.c:

```
*  
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*
```

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1.31 apr-util 1.6.3

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From `strings/apr_fnmatch.c`, include `apr_fnmatch.h`,

misc/unix/getopt.c,
file_io/unix/mktemp.c, strings/apr_strings.c:

```
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```

From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

```
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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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The following was received February 23, 2000 From: "Linn, John" February 19, 2000

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1.32 popt 1.19

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1.34 boost 1.80.0

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////

```
[#mpl]
# MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:
```

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

It's also possible to only enable support for `mp_list` by including `<boost/mp11/mpl_list.hpp>`, and for `std::tuple` by including `<boost/mp11/mpl_tuple.hpp>`. This may be required because some libraries, such as Boost.Fusion, contain their own MPL support for `std::tuple`, which conflicts with Mp11's one.

.Converting an existing MPL Sequence into an `mp_list`

...

```
using L = mpl::copy<Sequence, mpl::back_inserter<mp11::mp_list<>>>::type;
```

...

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 William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)

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Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

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```
<!DOCTYPE html>
<html>
<head></head>
<body>
  <h3>
    Copyright Test
  </h3>
  <p class="copyright">
    1963, 1964, 1965 Jane Doe
  </p>
  <p class="copyright">
```

```
2018 Joe Blow, John Coe
</p>
<p class="copyright">
  1977, 1985 Someone else
</p>
</body>
</html>
```

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<?xml version="1.0" encoding="UTF-8"?>
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"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
  <articleinfo>
    <copyright>
      <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
    </copyright>
    <copyright>
      <year>2018</year> <holder>Joe Blow, John Coe</holder>
    </copyright>
    <copyright>
      <year>1977</year> <year>1985</year> <holder>Someone else</holder>
    </copyright>
  </articleinfo>
</article>
```

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same

job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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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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.

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

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

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

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in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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A 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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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:

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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

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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.

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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

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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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<signature of Ty Coon>, 1 April 1990
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Version 2.1, February 1999

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

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

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1.39 python-pygobject 3.42.1

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

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

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

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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.

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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b) Use a suitable shared library mechanism for linking with the

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

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

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

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

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

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

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1.40 gobject-introspection 1.60.0

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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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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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(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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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

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1.41 libns! 2.0.1

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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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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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1.52 python-contextlib2 21.6.0

1.52.1 Available under license :

Note: The type hints included in this package come from the typeshed project, and are hence distributed under the Apache License 2.0 rather than under the Python Software License that covers the module implementation and test suite.

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contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

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 that included the contextlib module.

Release	Derived from	Year	Owner	GPL-compatible? (1)
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	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011		
PSF	yes			
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.3	3.2	2012	PSF	yes

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1.53 python-dbus 1.3.2

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File: config.guess (only for ICU4C)

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File: install-sh (only for ICU4C)

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1.66 findutils 4.10.0

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Version 3, 29 June 2007

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```
#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

/* This file uses _GL_ATTRIBUTE_PURE. */
#if !_GL_CONFIG_H_INCLUDED
#error "Please include config.h first."
#endif

#include <stddef.h>

#ifndef
DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif

/* Return the address of the last file name component of FILENAME.
   If FILENAME has some trailing slash(es), they are considered to be
   part of the last component.
   If FILENAME has no relative file name components because it is a file
   system root, return the empty string.
   Examples:
       FILENAME    RESULT
       "foo.c"     "foo.c"
       "foo/bar.c" "bar.c"
       "/foo/bar.c" "bar.c"
       "foo/bar/"  "bar/"
       "foo/bar/"  "bar/"
       "/"         ""
       "/"         ""
       ""          ""

   The return value is a tail of the given FILENAME; do NOT free() it! */

/* This function was traditionally called 'basename', but we avoid this
   function name because
   * Various platforms have different functions in their libc.
   In particular, the glibc basename(),
```

defined in <string.h>, does

not consider trailing slashes to be part of the component:

```
FILENAME    RESULT
"foo/bar/"   ""
"foo/bar//"  ""
```

* The 'basename' command eliminates trailing slashes and for a root produces a non-empty result:

```
FILENAME    RESULT
"foo/bar/"   "bar"
"foo/bar//"   "bar"
"/"          "/"
"//"          "/"
```

*/

```
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;
```

/* Return the length of the basename FILENAME.

Typically FILENAME is the value returned by base_name or last_component.

Act like strlen (FILENAME), except omit all trailing slashes. */

```
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;
```

```
#ifdef __cplusplus
```

```
} /* extern "C" */
```

```
#endif
```

```
#endif /* _BASENAME_LGPL_H */
```

1.67 pciutils 3.13.0

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1.68 ciscossh 1.13.48.11

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Portions of code from MODP_ASCII - Ascii transformations (upper/lower, etc)
<https://github.com/client9/stringencoders>

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1.73 irqbalance 1.9.4

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1.74 megactl 0.4.3

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1.75 kerberos 1.21.3

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cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
```

lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
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lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c

lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.77 e2fsprogs 1.47.1

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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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Theodore Ts'o
23-June-2007

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```
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Ty Coon, President of Vice

That's all there is to it!

#

This is a Makefile stub which handles the creation of BSD shared
libraries.

#

In order to use this stub, the following makefile variables must be defined.

#

BSDLIB_VERSION = 1.0

BSDLIB_IMAGE = libce

BSDLIB_MYDIR = et

BSDLIB_INSTALL_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD_LIB = \$(BSDLIB_IMAGE).so.\$(BSDLIB_VERSION)

BSDLIB_PIC_FLAG = -fpic

image: \$(BSD_LIB)

\$(BSD_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD_LIB) \$(LDFLAGS_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD_LIB) .

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

(cd ..; \$(LN) \$(LINK_BUILD_FLAGS) \

`echo \$(my_dir) | sed -e 's;lib/;;'/'\$(BSD_LIB) \$(BSD_LIB))

install-shlibs install:: \$(BSD_LIB)

@echo " INSTALL_PROGRAM \$(BSDLIB_INSTALL_DIR)/\$(BSD_LIB)"

@\$(INSTALL_PROGRAM) \$(BSD_LIB) \

\$(DESTDIR)\$(BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

@-\$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

```
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

clean::

```
$(RM)
```

```
-rf pic
```

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

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

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Upstream-Name: e2fsprogs

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

Source: <http://sourceforge.net/projects/e2fsprogs>

Comment:

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Files: *

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1997 Klee Dienes

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Files: lib/et/*

lib/ss/*

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Files: lib/et/vfprintf.c

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Comment: Taken from lib/com_err/error.c from Kerberos4kth distribution.

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lib/support/print_fs_flags.c

misc/e2fuzz.c

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Files: misc/create_inode.c

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1.78 tcpdump 4.99.5

1.78.1 Available under license :

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-*- perl -*-

```
$testlist = [  
  # This specific test fails on OpenBSD because the .pcap file uses DLT_RAW,  
  # which OpenBSD treats as DLT_LOOP.  
  {  
    config_unset => 'IS_OPENBSD',  
    name => 'heap-overflow-1',  
    input => 'heap-overflow-1.pcap',  
    output => 'heap-overflow-1.out',  
    args => '-v'  
  },  
];
```

1;

1.79 bash 5.2.37

1.79.1 Available under license :

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1.82 openssh 9.9p1

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lib/erl/src/Makefile.am

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For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

```
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```

For the lib/nodejs/lib/thrift/json_parse.js:

```
/*
  json_parse.js
  2015-05-02
  Public Domain.
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
 * Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
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   be retained, unchanged, in its entirety. If
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*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
////////////////////////////////////
```

Codegen template

in t_html_generator.h

```
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*
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*
* Designed and built with all the love in the world @twitter by @mdo and @fat.
```

For t_cl_generator.cc

```
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* Copyright (c) 2006- Facebook
```

1.85 open-ldap 2.6.9

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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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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.

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:

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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 collective works based on the Library.

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

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

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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.

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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.

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

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

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

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

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

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

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

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

distribute.

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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.

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That's all there is to it!
The gettext-runtime package is partially under the LGPL and partially under
the GPL.

The following parts are under the LGPL, see file intl/COPYING.LIB:

- the libintl and libasprintf libraries and their header files,
- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

The following parts are under the GPL, see file COPYING in the toplevel directory:

- the _programs_ gettext, ngettext, envsubst,
- the documentation.

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Version 3, 29 June 2007

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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

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"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

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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.

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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.

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4 to

"keep intact all notices".

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

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no

more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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

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

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

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

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1.99 nghttp2 1.65.0

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nit Testing Framework

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- mrbgems/mruby-dir/src/Win/dirent.c: MIT-like license by Kevlin Henney

[src/readfloat.c]

strtod implementation.

author: Yasuhiro Matsumoto (@mattn)

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The original code can be found in <https://github.com/mattn/strtod>

[src/fmt_fp.c]

The code in this function was inspired from Fred Bayer's pdouble.c.
Since pdouble.c was released as Public Domain, I'm releasing this
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Dave Hylands

The original code can be found in <https://github.com/dhylands/format-float>

[mrbgems/mruby-dir/src/Win/dirent.c] used only for Windows platform

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But that said, if there are any problems please get in touch.

set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

mruby-set

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1.100 less 668

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1.101 libuv 1.50.0

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1.109 diffutils 3.11

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1.111 gawk 5.3.1

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1.112 binutils 2.43.50

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```
#ifndef __VTV_H__
#define __VTV_H__
```

```
/* We could have used an enumeration here but it just makes it more
   difficult for the compiler to generate a call to this. These are
   used as arguments to the function __VLTChangePermission, declared
   below. */
```

```
#define __VLTP_READ_ONLY 0
#define __VLTP_READ_WRITE 1
```

```
#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif
```

```
#ifdef BIG_PAGE_SIZE
```

```

/* TODO - Replace '4096' below with correct big page size. */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#elif defined(__loongarch_lp64)
/* The page size is configurable by the kernel to
be 4, 16 or 64 KiB.
For now, only the default page size of 16KiB is supported. */
#define VTV_PAGE_SIZE 16384
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif

#endif /* __VTV_H__ */
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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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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 2, June 1991

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

[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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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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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.

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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 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:

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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.

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.

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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 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

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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

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

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.

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Each

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year>

<name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 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 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

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

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.

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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```
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```
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```

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@c man end

1.114 kmod 34.2

1.114.1 Available under license :

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Version 2.1, February 1999

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1.115 libcap 2.75

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1.116 libxml2 2.13.8

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1.118 pcre2 10.45

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1.119 samba 4.21.2_PRIVATE_SAMBA

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@vskip 20pt plus 1fil  
@end macro
```

```
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@end macro
```

```
@macro copyrightend{ }  
@end macro
```

```
@comment node-name, next, previous, up
```

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```

```
@copyrightstart  
@verbatim
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AES in

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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1.122 ncurses 6.5-20250216

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1.123 dmidecode 3.6

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1.124 shadow 4.17.2

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1.125 fail2ban 1.1.0

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1.126 linux-firmware 20231211

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1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be linked from `"/lib/modules/<KERNEL VERSION>/build"` for convenience. If this link does not exist, an extra parameter will need to be passed to the ``make`` command.

All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the kernel as built-in or modules:

CONFIG_HOTPLUG	- Support for hot-pluggable devices
CONFIG_MODULES	- Enable loadable module support
CONFIG_KMOD	- Automatic kernel module loading
CONFIG_FW_LOADER	- Hotplug firmware loading support
CONFIG_I2C	- I2C support
CONFIG_VIDEO_DEV	- Video For Linux
CONFIG_SOUND	- Sound card support
CONFIG_SND	- Advanced Linux Sound Architecture
CONFIG_USB	- Support for Host-side USB
CONFIG_USB_DEVICEFS	- USB device filesystem
CONFIG_USB_EHCI_HCD	- EHCI

HCD (USB 2.0) support

Additionally, to use the example application, the following options need to be enabled in the ALSA section:

CONFIG_SND_MIXER_OSS	- OSS Mixer API
CONFIG_SND_PCM_OSS	- OSS PCM (digital audio) API

The hotplug scripts, along with the `fxload` utility, must also be installed. These scripts can be obtained from <http://linux-hotplug.sourceforge.net/>. Hotplugging is used for loading firmware into the Cypress EZ-USB chip using `fxload` and for loading firmware into the driver using the firmware agent.

2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

```
$ make
```

in the top-level directory of the driver kit. First the kernel modules will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the currently-running kernel, or if the module should be built for a kernel other than the currently-running kernel, an additional parameter will need to be passed to make to specify the appropriate kernel source directory:

```
$ make KERNELSRC=/usr/src/linux-2.6.10-custom3
```

Once the compile completes, the driver and firmware files should be installed by running:

```
$ make install
```

The kernel modules will be placed in "/lib/modules/<KERNEL VERSION>/extra" and the firmware files will be placed in the appropriate hotplug firmware directory, usually /lib/firmware. In addition, USB maps and scripts will be placed in /etc/hotplug/usb to enable fxload to initialize the EZ-USB control chip when the device is connected.

3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plector ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plector ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about

the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the "force_band" parameter to the wis-sony-tuner module:

TV band	force_band
-----	-----

PAL B/G	B
PAL I	I
PAL D/K	D
SECAM L	L

If the "force_band" parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format.

There are

several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force_mpx_mode" parameter must be specified to the wis-sony-tuner module.

TV band	Audio subcarrier	force_mpx_mode
-----	-----	-----
PAL B/G	Mono (default)	1
PAL B/G	A2	2
PAL B/G	NICAM	3
PAL I	Mono (default)	4
PAL I	NICAM	5
PAL D/K	Mono (default)	6
PAL D/K	A2 (1)	7
PAL D/K	A2 (2)	8
PAL D/K	A2 (3)	9
PAL D/K	NICAM	10
SECAM L	Mono (default)	11
SECAM L	NICAM	12

If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

```
$ apps/gorecord -duration 60 capture.avi
```

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the -help flag for usage information.

5. USING THE DRIVER

The

V4L2 device implemented by the driver provides a standard compressed format API, within the following criteria:

- * Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.
- * No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.
- * Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.

- * MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.
- * Video parameters such as format and input port may not be changed while the encoder is active.
- * The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.
- * The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard features of the GO7007SB encoder, which are described below:

GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC_G_COMP_PARAMS ioctl with a pointer to a struct go7007_comp_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_comp_params and call the GO7007_IOC_S_COMP_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_comp_params:

__u32	The maximum number of frames in each
gop_size	Group Of Pictures; i.e. the maximum
	number of frames minus one between
	each key frame.
__u32	The maximum number of sequential

max_b_frames bidirectionally-predicted frames.
(B-frames are not yet supported.)

enum go7007_aspect_ratio The aspect ratio to be encoded in the
aspect_ratio meta-data of the compressed format.

Choices are:

GO7007_ASPECT_RATIO_1_1

GO7007_ASPECT_RATIO_4_3_NTSC

GO7007_ASPECT_RATIO_4_3_PAL

GO7007_ASPECT_RATIO_16_9_NTSC

GO7007_ASPECT_RATIO_16_9_PAL

__u32 Bit-wise OR of control flags (below)
flags

Flags in struct go7007_comp_params:

GO7007_COMP_CLOSED_GOP Only produce self-contained GOPs, used
to produce streams appropriate for
random seeking.

GO7007_COMP_OMIT_SEQ_HEADER Omit the stream sequence header.

GO7007IOC_S_MPEG_PARAMS, GO7007IOC_G_MPEG_PARAMS

These ioctls are used to negotiate MPEG-specific stream parameters when
the pixelformat has been set to V4L2_PIX_FMT_MPEG.

To query the current parameters, call the GO7007IOC_G_MPEG_PARAMS ioctl
with a pointer to a struct go7007_mpeg_params.

If the driver is not

set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct
go7007_mpeg_params and call the GO7007_IOC_S_MPEG_PARAMS ioctl with a
pointer to this structure. The driver will return the current
parameters with any necessary changes to conform to the limitations of
the hardware or selected MPEG mode. Any or all fields can be set to
zero to request a reasonable default value. If the driver is not set
to MPEG format, the EINVAL error code will be returned. When I/O is in
progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:

enum go7007_mpeg_video_standard

mpeg_video_standard The MPEG video standard in which to compress the video.

Choices are:

GO7007_MPEG_VIDEO_MPEG1

GO7007_MPEG_VIDEO_MPEG2

GO7007_MPEG_VIDEO_MPEG4

__u32 Bit-wise OR of control flags (below)
flags

__u32 The profile and level indication to be
pali stored in the sequence header. This
is only used as an indicator to the
decoder, and does not affect the MPEG
features used in the video stream.
Not valid for MPEG1.

Choices for MPEG2 are:

GO7007_MPEG2_PROFILE_MAIN_MAIN

Choices for MPEG4 are:

GO7007_MPEG4_PROFILE_S_L0

GO7007_MPEG4_PROFILE_S_L1

GO7007_MPEG4_PROFILE_S_L2

GO7007_MPEG4_PROFILE_S_L3

GO7007_MPEG4_PROFILE_ARTS_L1

GO7007_MPEG4_PROFILE_ARTS_L2

GO7007_MPEG4_PROFILE_ARTS_L3

GO7007_MPEG4_PROFILE_ARTS_L4

GO7007_MPEG4_PROFILE_AS_L0

GO7007_MPEG4_PROFILE_AS_L1

GO7007_MPEG4_PROFILE_AS_L2

GO7007_MPEG4_PROFILE_AS_L3

GO7007_MPEG4_PROFILE_AS_L4

GO7007_MPEG4_PROFILE_AS_L5

Flags in struct go7007_mpeg_params:

GO7007_MPEG_FORCE_DVD_MODE Force all compression parameters and
bitrate control settings to comply

with DVD MPEG2 stream requirements.

This overrides most compression and
bitrate settings!

GO7007_MPEG_OMIT_GOP_HEADER Omit the GOP header.

GO7007_MPEG_REPEAT_SEQHEADER Repeat the MPEG sequence header at the start of each GOP.

GO7007IOC_S_BITRATE, GO7007IOC_G_BITRATE

These ioctls are used to set and query the target bitrate value for the compressed video stream. The bitrate may be selected by storing the target bits per second in an int and calling GO7007IOC_S_BITRATE with a pointer to the int. The bitrate may be queried by calling GO7007IOC_G_BITRATE with a pointer to an int where the current bitrate will be stored.

Note that this is the primary means of controlling the video quality for all compression modes, including V4L2_PIX_FMT_MJPEG. The VIDIOC_S_JPEGCOMP ioctl is not supported.

Installing the WIS PCI Voyager Driver

The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and applied in the order listed:

<http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner>
<http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2>
<http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg>
<http://dl.bytesex.org/patches/2.6.11-2/saa7134-update>

The following patches are included with this SDK and can be applied in any order:

patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff

Check to make sure the CONFIG_VIDEO_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

```
$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007
```

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

```
$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi
```

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).

RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER

Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE_UDEV=n". To force the use of udev, run "make install USE_UDEV=y".
- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.
- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.
- On devices with an SAA7115, including the Plector ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.

- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

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* AUTHOR: Aaron D. Gifford <me@aarongifford.com>

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*
* $Id: sha2.c,v 1.1 2001/11/08 00:01:51 adg Exp adg $
*/
File: LLM_sp_sha2.c

```

```

/*
* FILE:  sha2.h
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*
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*
* $Id: sha2.h,v 1.1 2001/11/08 00:02:01 adg Exp adg $
*/
File: LLM_sp_sha2.h

```

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=====

```

2.

```

/* utility to create the register check tables
* this includes inlined list.h safe for userspace.
*
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*
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*   Jerome
*   Glisse
*   Dave Airlie
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*/

File: comm_lib.h

=====

3.

/* crypto/aes/aes.h -*- mode:C; c-file-style: "eay" -*- */

/* =====

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* =====

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*/

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File Name list: aes.h, aes_locl.h

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4.

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/* crypto/aes/aes_core.c -*- mode:C; c-file-style: "eay" -*- */

```

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/**

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```

* rijndael-alg-fst.c

```

```

*

```

```

* @version 3.0 (December 2000)

```

```

*

```

```

* Optimised ANSI C code for the Rijndael cipher (now AES)

```

```

*

```

```

* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

```

```

* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

```

```

* @author Paulo Barreto <paulo.barreto@terra.com.br>

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*/

File: aes_core.c

=====

5.

/*=====

EDIT HISTORY FOR FILE

\$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes.h#1 \$

\$DateTime: 2006/12/11 00:43:21 \$ \$Author: davidf \$

when who what, where, why

----- --

11/12/04 rv changes to correct LINT errors

02/02/04 rwh Small mods to open

source.

=====*/

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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

*/

File: aes.h

/*=====

EDIT HISTORY FOR FILE

\$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes_tab.h#1 \$

\$DateTime: 2006/12/11 00:43:21 \$ \$Author: davidf \$

when who what, where, why

11/12/04 rv changes to correct LINT errors

02/02/04

 rwh Small mods to open source.

=====*/

/*lint -e146 -e303 */

/* 146: Assuming a binary constant */

/* 303: String too long (try +macros) */

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File: aes_tab.h

=====

6.

=====

#FILE:Conftest.py

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#

#

#

=====
File: Conftest.py

=====
7.
=====

/ ***

*

* Fowler/Noll/Vo- hash

*

* The basis of this hash algorithm was taken from an idea sent

* as reviewer comments to the IEEE POSIX P1003.2 committee by:

*

* Phong Vo (<http://www.research.att.com/info/kpv/>)

* Glenn Fowler (<http://www.research.att.com/~gsf/>)

*

* In a subsequent ballot round:

*

* Landon Curt Noll (<http://www.isthe.com/chongo/>)

*

* improved on their algorithm. Some people tried this hash

* and found that it worked rather well. In an EMail message

* to Landon, they named it the ``Fowler/Noll/Vo" or FNV hash.

*

* FNV hashes are designed to be fast while maintaining a low

* collision rate. The FNV speed allows one to quickly hash

lots

* of data while maintaining a reasonable collision rate. See:

*

* <http://www.isthe.com/chongo/tech/comp/fnv/index.html>

*

* for more details as well as other forms of the FNV hash.

*

*

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*

* By:

* chongo <Landon Curt Noll> /oo/

* <http://www.isthe.com/chongo/>

*

* Share and Enjoy! :-)

*/

File: fm_fnv_hash.h, fm_fnv_hash.c

=====
8.
=====

/*

* \$Header: //source/qcom/qct/core/api/kernel/main/latest/libstd/stringl/stringl.h#13 \$

* \$DateTime: 2013/07/24 11:35:54 \$

*/

/* \$OpenBSD: string.h,v 1.17 2006/01/06 18:53:04 millert Exp \$ */

/* \$NetBSD: string.h,v 1.6 1994/10/26 00:56:30 cgd Exp \$ */

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*

* @(#)string.h 5.10 (Berkeley) 3/9/91

*/

File: stringl.h

=====

9.

=====

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wstrcat.c

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File:

atomic_ops.h

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* Author: Malcolm
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* Author: Carlos Dyonisio <medaglia@ok-labs.com>
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File: qurt_atomic_ops.h

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/*

* Author: Malcolm Purvis <malcolmp@ok-labs.com>

*

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*/

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File: htt_common.h

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File: htt.h

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File: wdi_ipa.h

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File:

wlan_nan_msg_common.h

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File: wlan_nan_msg_common_v2.h

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File: wmi.h

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File: wmi_services.h

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wmi_tlv_helper.h

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File: wmi_version.h

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File: dbglog_id.h
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File: htc.h
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=====
File: pktlog_if.h

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=====
File: queue.h

```
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 */
```

=====
File: stail_queue.h

```
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//
// @(#)queue.h 8.5 (Berkeley) 8/20/94
// $FreeBSD: src/sys/sys/queue.h,v 1.58 2004/04/07 04:19:49 imp Exp $
// $Id: //components/rel/wlanfw_cmn.cnss/1.0/cnss_proc/wlan/fwcommon/include/queue.h#1 $
//
=====
File:
targaddrs.h

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=====
File: aes_gcm.h

*/

/*

* Galois/Counter Mode (GCM) and GMAC with AES

*

* Copyright (c) 2012, Jouni Malinen <j@w1.fi>

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=====
File: aes_wrap.h

*/

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/*

* AES-based functions

*

*

* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)

* - One-Key CBC MAC (OMAC1) hash with AES-128

* - AES-128 CTR mode encryption

* -

AES-128 EAX mode encryption/decryption

* - AES-128 CBC

*

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* MD5 hash implementation and interface functions

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=====

File: sha2.h

/*

* FILE: sha2.h

* AUTHOR: Aaron D. Gifford - <http://www.aarongifford.com/>

*

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*

* \$Id: //depot/sw/branches/qca_rome_main/perf_pwr_offload/drivers/target/include/sha2.h#1 \$
*/

=====

File: wal_dfs.h

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//
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_ethersubr.h#3 $
//
```

```
=====
```

File: wal_dfs.c

```
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 */
```

```
=====
```

File: ieee_crc32.c

```

/*
* COPYRIGHT (C) 1986 Gary S. Brown. You may use this program, or
* code or tables extracted from it, as desired without
restriction.
*
* First, the polynomial itself and its table of feedback terms. The
* polynomial is
*  $X^{32}+X^{26}+X^{23}+X^{22}+X^{16}+X^{12}+X^{11}+X^{10}+X^8+X^7+X^5+X^4+X^2+X^1+X^0$ 
*
* Note that we take it "backwards" and put the highest-order term in
* the lowest-order bit. The  $X^{32}$  term is "implied"; the LSB is the
*  $X^{31}$  term, etc. The  $X^0$  term (usually shown as "+1") results in
* the MSB being 1
*
* Note that the usual hardware shift register implementation, which
* is what we're using (we're merely optimizing it by doing eight-bit
* chunks at a time) shifts bits into the lowest-order term. In our
* implementation, that means shifting towards the right. Why do we
* do it this way? Because the calculated CRC must be transmitted in
* order from highest-order term to lowest-order term. UARTs transmit
* characters in order from LSB to MSB. By storing the CRC this way
* we hand it to the UART in the order low-byte to high-byte; the UART
* sends each low-bit
to high-bit; and the result is transmission bit
* by bit from highest- to lowest-order term without requiring any bit
* shuffling on our part. Reception works similarly
*
* The feedback terms table consists of 256, 32-bit entries. Notes
*
* The table can be generated at runtime if desired; code to do so
* is shown later. It might not be obvious, but the feedback
* terms simply represent the results of eight shift/xor opera
* tions for all combinations of data and CRC register values
*
* The values must be right-shifted by eight bits by the "updcrc
* logic; the shift must be unsigned (bring in zeroes). On some
* hardware you could probably optimize the shift in assembler by
* using byte-swap instructions
* polynomial $edb88320
*
*
* CRC32 code derived from work by Gary S. Brown.
*/
=====
File: aes.c

/*

```

```

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/*
* AES (Rijndael) cipher
*
* Modifications to public domain implementation:
* - support only 128-bit keys
* - cleanup
* - use C pre-processor to make it easier to change S table access
* - added option (AES_SMALL_TABLES) for reducing code size by about 8 kB at
*   cost of reduced throughput (quite small difference on Pentium 4,
*   10-25% when using -O1 or -O2 optimization)
*
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*/

/*
* rijndael-alg-fst.c
*
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael
cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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*/

=====
File: aes_gcm.c

/*

* Galois/Counter Mode (GCM) and GMAC with AES

*

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/*

* AES-based functions

*

* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)

* - One-Key CBC MAC (OMAC1) hash with AES-128

* - AES-128 CTR mode encryption

* - AES-128 EAX mode encryption/decryption

* - AES-128 CBC

*

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* wpa_supplicant/hostapd / common helper functions, etc.
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=====
File: md5.c

//
//
\$Id: //depot/sw/branches/qca_main_wifi2.0/perf_pwr_offload/drivers/target/src/misc/crypto/md5.c#1 \$
//
// This code implements the MD5 message-digest algorithm.
// The algorithm is due to Ron Rivest. This code was
// written by Colin Plumb in 1993, no copyright is claimed.
// This code is in the public domain; do with it what you wish.
//
// Equivalent code is available from RSA Data Security, Inc.
// This code has been tested against that, and is equivalent,
// except that you don't need to include two pages of legalese
// with every copy.
//
// To compute the message digest of a chunk of bytes, declare an
// MD5Context structure, pass it to MD5Init, call MD5Update as
// needed on buffers full of bytes, and then call MD5Final, which
// will fill a supplied 16-byte array with the digest.
//

=====
File: sha1.c

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```

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```

=====
File: wmi_tlv_helper.c

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=====
File: platform_cmnos_printf.c

```

```

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```

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File: phyUtilsStrncpy.c

/* \$OpenBSD: strncpy.c,v 1.11 2006/05/05 15:27:38 millert Exp \$ */

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File: cds_ieee80211_common.h

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File: dfs_interface.h
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dfs_ioctl.h
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//
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
// $NetBSD: if_llc.h,v 1.12 1999/11/19 20:41:19 thorpej Exp $
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
//

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 *
 * @(#)if_llc.h 8.1 (Berkeley) 6/10/93
 * $FreeBSD: src/sys/net/if_llc.h,v 1.9 2002/09/23 06:25:08 alfred Exp $
 */
=====
File: qvit_init_api.h

```

```

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=====

File: wlan_mlme_wmi.c

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=====
File: sha2.c

/*

* FILE: sha2.c

* AUTHOR: Aaron D. Gifford - <http://www.aarongifford.com/>

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* This file defines the cryptographic
 functions that need to be implemented
* for wpa_supplicant and hostapd. When TLS is not used, internal
* implementation of MD5, SHA1, and AES is used and no external libraries are
* required. When TLS is enabled (e.g., by enabling EAP-TLS or EAP-PEAP), the
* crypto library used by the TLS implementation is expected to be used for
* non-TLS needs, too, in order to save space by not implementing these
* functions twice.
*
* Wrapper code for using each crypto library is in its own file (crypto*.c)
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File: wmi_vendor_ss.h

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/* zlib.h -- interface of the 'zlib' general purpose compression
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version 1.2.3, July 18th, 2005

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

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt>
(zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).
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```
*
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* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update
as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/
```

```
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```

```
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*

* First, the polynomial itself and its table of feedback terms. The
* polynomial is

* $X^{32} + X^{26} + X^{23} + X^{22} + X^{16} + X^{12} + X^{11} + X^{10} + X^8 + X^7 + X^5 + X^4 + X^2 + X^1 + X^0$

*

* Note that we take it "backwards" and put the highest-order term in
* the lowest-order bit. The X^{32} term is "implied"; the LSB is the
* X^{31} term, etc. The X^0 term (usually shown as "+1") results in
* the MSB being 1

*

* Note that the usual hardware shift register implementation, which
* is what we're using (we're merely optimizing it by doing eight-bit
* chunks at a time) shifts bits into the lowest-order term. In our
* implementation, that means shifting towards the right. Why do we
* do it this way? Because the calculated CRC must be transmitted in
* order from highest-order
term to lowest-order term. UARTs transmit
* characters in order from LSB to MSB. By storing the CRC this way
* we hand it to the UART in the order low-byte to high-byte; the UART
* sends each low-bit to high-bit; and the result is transmission bit
* by bit from highest- to lowest-order term without requiring any bit
* shuffling on our part. Reception works similarly

*

* The feedback terms table consists of 256, 32-bit entries. Notes

*

* The table can be generated at runtime if desired; code to do so
* is shown later. It might not be obvious, but the feedback
* terms simply represent the results of eight shift/xor opera
* tions for all combinations of data and CRC register values

*

* The values must be right-shifted by eight bits by the "updcrc
* logic; the shift must be unsigned (bring in zeroes). On some
* hardware you could probably optimize the shift in assembler by
* using byte-swap instructions

* polynomial

\$edb88320

*

/*

The AES algorithm Rijndael implemented for block and key sizes of 128, 192 and 256 bits (16, 24 and 32 bytes) by Brian Gladman.

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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

/*

* hash_32 - 32 bit Fowler/Noll/Vo hash code

*

* Fowler/Noll/Vo hash

*

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/*

* sha1.c

*

* Originally written by Steve Reid <steve@edmweb.com>

*

* Modified by Aaron D. Gifford <agifford@infowest.com>

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* The original unmodified version is available at:

* <ftp://ftp.funet.fi/pub/crypt/hash/sha/sha1.c>

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/*

* AES-based functions

*

* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)

* - One-Key CBC MAC (OMAC1) hash with AES-128

* - AES-128 CTR mode encryption

* - AES-128 EAX mode encryption/decryption

* - AES-128 CBC

*

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```

*/
-----

/*
* hmac_sha1.c
*
* Version
1.0.0
*
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Firmware provided as part of an XC5000 Linux developers kit by Brian
Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org>
on July 1, 2009.

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```
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* EAP peer state machines (RFC 4137)
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File: fils.h

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File: mywpa_common.c

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 * AES-based functions
 *
 *
 * - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
 * - One-Key CBC MAC (OMAC1) hash with AES-128
 * - AES-128 CTR mode encryption
 * - AES-128 EAX mode encryption/decryption
 * - AES-128 CBC
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File: sha1.h

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 * This file defines the cryptographic functions that need to be implemented
 * for wpa_supplicant and hostapd. When TLS is not used,
 internal
 * implementation of MD5, SHA1, and AES is used and no external libraries are
 * required. When TLS is enabled (e.g., by enabling EAP-TLS or EAP-PEAP), the
 * crypto library used by the TLS implementation is expected to be used for
 * non-TLS needs, too, in order to save space by not implementing these
 * functions twice.
 *
 * Wrapper code for using each crypto library is in its own file (crypto*.c)
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=====

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* Author: Malcolm Purvis <malcolmp@ok-labs.com>

* Author: Carlos Dyonisio <medaglia@ok-labs.com>

*/

=====

File: qurt_atomic_ops.h

/*

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*

* Version 1-0

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/*

* Author: Malcolm Purvis <malcolmp@ok-labs.com>

*

* This file is only included by the main atomic_ops.h, so all of that

* file's definitions are available.

*/

=====

File: ieee_crc32.c

/*

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*

* First, the polynomial itself and its table of feedback terms. The

* polynomial is

* $X^{32} + X^{26} + X^{23} + X^{22} + X^{16} + X^{12} + X^{11} + X^{10} + X^8 + X^7 + X^5 + X^4 + X^2 + X^1 + X^0$

*

* Note that we take it "backwards" and put the highest-order term in

* the lowest-order bit. The X^{32} term is "implied"; the LSB is the

* X^{31} term, etc. The X^0 term (usually shown as "+1") results in

* the MSB being 1

*

* Note that the usual hardware shift register

implementation, which

* is what we're using (we're merely optimizing it by doing eight-bit

* chunks at a time) shifts bits into the lowest-order term. In our

* implementation, that means shifting towards the right. Why do we

* do it this way? Because the calculated CRC must be transmitted in

* order from highest-order term to lowest-order term. UARTs transmit

* characters in order from LSB to MSB. By storing the CRC this way

* we hand it to the UART in the order low-byte to high-byte; the UART

* sends each low-bit to high-bit; and the result is transmission bit

* by bit from highest- to lowest-order term without requiring any bit

* shuffling on our part. Reception works similarly

*

* The feedback terms table consists of 256, 32-bit entries. Notes

*

* The table can be generated at runtime if desired; code to do so

* is shown later. It might not be obvious, but the feedback

* terms simply represent the results of eight shift/xor opera

* tions for all combinations of data and CRC register values

*

* The values must be right-shifted by eight bits by the "updcrc

* logic; the shift must be unsigned (bring in zeroes). On some

* hardware you could probably optimize the shift in assembler by

* using byte-swap instructions

* polynomial \$edb88320

*

*

* CRC32 code derived from work by Gary S. Brown.

*/

=====

File: sha2.h

/*

* AUTHOR: Aaron D. Gifford - <http://www.aarongifford.com/>

*

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/* \$OpenBSD: string.h,v 1.17 2006/01/06 18:53:04 millert Exp \$ */

/* \$NetBSD: string.h,v 1.6 1994/10/26 00:56:30 cgd Exp \$ */

/*-

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*
* @(#)string.h 5.10 (Berkeley) 3/9/91
*/

```

```

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```

```

File:
stail_queue.h

```

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```
//
```

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

```
// $FreeBSD: src/sys/sys/queue.h,v 1.58 2004/04/07 04:19:49 imp Exp $
```

```
=====
```

File:

phyUtilsStrlcpy.c

```
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```

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```

```
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```

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```
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```
=====
```

File: platform_cmnos_printf.c

```
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```

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```
/*
```

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```

```

=====

```

```

File: strlcat.c

```

```

/* $OpenBSD: strlcat.c,v 1.13 2005/08/08 08:05:37 espie Exp $ */
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```
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/* OPENBSD ORIGINAL: lib/libc/string/strnlen.c */

=====

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```

```
=====  
  
File: aes_siv.h
```

```
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```

=====

```

File: apf.h

```

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```

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```

File: apf_interpreter.c

```

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/* ===== start - public domain SHA256 implementation ===== */

/* This is based on SHA256 implementation in LibTomCrypt that was released into

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*/

=====

File: sha384-internal.c

/*

* SHA-384 hash implementation and interface functions

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/* This is based on SHA384 implementation in LibTomCrypt that was released into

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=====

File: sha512-internal.c

/*

* SHA-512 hash implementation and interface functions

* Copyright (c) 2015, Pali Rohr <pali.rohar@gmail.com>

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/* ===== start - public domain SHA512 implementation ===== */

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File: sha256.h

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```

```
=====
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File: sha384_i.h

```

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File: sha384.h

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File: md5.c

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//
// This code implements the MD5 message-digest algorithm.
// The algorithm is due to Ron Rivest. This code was
// written by Colin Plumb in 1993, no copyright is claimed.
// This code is in the public domain; do with it what you wish.
//
// Equivalent code is available from RSA Data Security, Inc.
// This code has been tested against that, and is equivalent,
// except that you don't need to include two pages of legalese
// with every copy.
//
// To compute the message digest of a chunk of bytes, declare an
// MD5Context structure, pass it to MD5Init, call MD5Update as
// needed on buffers full of bytes, and then call MD5Final, which
// will fill a supplied 16-byte array with
// the digest.
//
// This code implements the MD5 message-digest algorithm.
// The algorithm is due to Ron Rivest. This code was
// written by Colin Plumb in 1993, no copyright is claimed.
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// This code has been tested against that, and is equivalent,
// except that you don't need to include two pages of legalese
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=====
File: aes_gcm.h

```
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*/
/*
* Galois/Counter Mode (GCM) and GMAC with AES
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=====

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md5_api.h

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File: wlan_p2p_listen_offload_int.c

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File: wlan_p2p_listen_offload_internal.h

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```

=====

```

File:

aes-ctr.c

```

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* AES-128/192/256 CTR
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=====
File: m1_m4_frame.c

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/* RC4 stream cipher
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File: my_nan_sec.c

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File: mywpa.c

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File: mywpa_ft.c

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File: mywpa_ft.h

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File: wlan_p2p_disc_offload.c

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=====
File: htt_common.h

```
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htt_ppdu_stats.h

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=====

File: wdi_ipa.h

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=====
File:
wlan_defs.h

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File: wlan_nan_msg_common.h

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File: wlan_nan_msg_common_v2.h

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File: wmi.h

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File: wmi_tlv_defs.h

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File: wlan_module_ids.h

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File: wmi_vendor.h


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targaddrs.h

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File: wal_dfs.h

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File: wal_dfs.c

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File: aes.c

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/*
* AES (Rijndael) cipher
*
* Modifications to public domain implementation:
* - support only 128-bit keys
* - cleanup
* - use C pre-processor to make it easier to change S table access
* - added option (AES_SMALL_TABLES) for reducing code size by about 8 kB at
* cost of reduced throughput (quite small difference on Pentium 4,
* 10-25% when using -O1 or -O2 optimization)
*
* Copyright (c) 2003-2005, Jouni Malinen <jkmaline@cc.hut.fi>
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/*
* rijndael-alg-fst.c
*
* @version 3.0
* (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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File: wmi_tlv_helper.c

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File: hca_HwComponentBbLithium_dfs_phyerr_tlv.cpp

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File: hca_HwComponentBbLithium_dfs_process_phyerr.cpp

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File: hca_HwComponentBbLithium_dfs_process_radarevent.cpp

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File: cds_ieee80211_common.h

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cds_ieee80211_common_i.h

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File: dfs.h

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File: dfs_ioctl.h

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File: dfs_ioctl_private.h

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File:
qdf_net_types.h

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File: cds_reg_service.h

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File: qdf_status.h

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File: wma_dfs_interface.h


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File: dfs_bindetects.c

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File: dfs_init.c

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File:
dfs_misc.c

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=====
File: sha2.c

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//
// @(#)queue.h 8.5 (Berkeley) 8/20/94
// $FreeBSD: src/sys/sys/queue.h,v 1.58 2004/04/07 04:19:49 imp Exp $
// $Id: //components/rel/wlanfw_cmn.cnss/1.0/cnss_proc/wlan/fwcommon/include/queue.h#1 $
//
```

```
=====
=
```

File: queue.h

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File: ip_prot.h

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File: athdefs.h

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File: ipv6.h

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File: epping_test.h

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=====
File: dbglog.h

```
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File: wlan_nan_msg_common.h

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File: wlan_nan_msg_common_v2.h

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File:

wmi_unified_vendor.h

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File: strlcpy.c

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File: program_xml.py

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File:

interrupt_xml.py

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File: wscslcat.c

/* \$OpenBSD: strlcat.c,v 1.13 2005/08/08 08:05:37 espie Exp \$ */

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File: machine_xml.py

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/*

* \$Header: //components/rel/core.riscv/1.0/api/kernel/libstd/stringl/stringl.h#2 \$

* \$DateTime: 2019/11/15 03:07:20 \$

*/

/* \$OpenBSD: string.h,v 1.17 2006/01/06 18:53:04 millert Exp \$ */

/* \$NetBSD: string.h,v 1.6 1994/10/26 00:56:30 cgd Exp \$ */

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*
* @(#)string.h 5.10
* (Berkeley) 3/9/91
*/

```

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```

File: ezxml.py

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File: strlcat.c

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File: merge.py

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#  
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File: dlfcn.h

/* \$NetBSD: dlfcn.h,v 1.17.2.1 2005/03/21 21:25:37 jwise Exp \$ */

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File: md5.h

/*=====

MD5.H - header file for MD5C.C

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File: zconf.h

/* zconf.h -- configuration of the zlib compression library

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*/

/* @(#) \$Id: //components/rel/core.wpss/1.0/api/services/zconf.h#1 \$ */

=====

===

File: zlib.h

/* zlib.h -- interface of the 'zlib' general purpose compression library

version 1.2.7, May 2nd,

2012

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

*/

=====
===

File: exec_elf.h

/* \$NetBSD: exec_elf.h,v 1.81 2005/02/26 22:25:34 perry Exp \$ */

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File: headers.c

/* \$NetBSD: headers.c,v 1.20 2005/01/09 12:43:23 simonb Exp \$ */

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*/

/*

* Dynamic linker for ELF.

*
* John Polstra <jdp@polstra.com>.
*/

=====
===

File: wscncpy.c

/*
* \$Header: //components/rel/core.wpss/1.0/kernel/libstd/src/wscncpy.c#1 \$
* \$DateTime: 2020/07/06 22:28:14 \$
*/

/* \$OpenBSD: strlcpy.c,v 1.11 2006/05/05 15:27:38 millert Exp \$ */

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File: qurt_atomic_ops.h

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File: atomic_ops.h

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/*

* \$Header: //components/rel/core/wpss/1.0/kernel/libstd/src/wstrlcpy.c#1 \$

* \$DateTime: 2020/07/06 22:28:14 \$

*/

/* \$OpenBSD: strlcpy.c,v 1.11 2006/05/05 15:27:38 millert Exp \$ */

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```

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=====
===

File: rtld_start.S

/* \$NetBSD: rtld_start.S,v 1.8 2004/08/21 11:12:03 rearnsha Exp \$ */

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File: reloc.c

/* \$NetBSD: reloc.c,v 1.87 2005/01/09 14:58:15 martin Exp \$ */

```

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```

File: strnlen.c

```

/*
* $Header: //components/rel/core/wpss/1.0/kernel/libstd/src/strnlen.c#1 $
* $DateTime: 2020/07/06 22:28:14 $
*/

```

```

/* $OpenBSD: strnlen.c,v 1.3 2010/06/02 12:58:12 millert Exp $ */

```

```

/*
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```

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/* OPENBSD ORIGINAL: lib/libc/string/strnlen.c */

=====
===

File: rtld.c

/* \$NetBSD: rtld.c,v 1.107.2.1 2006/02/01 20:38:06 tron Exp \$ */

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File: debug.c

/* \$NetBSD: debug.c,v 1.6 2004/10/22 05:39:56 skrl Exp \$ */

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*/

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===

File: debug.h
```

```
/* $NetBSD: debug.h,v 1.5 2002/09/12 22:56:28 mycroft Exp $ */
```

```
/*
```

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*/
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File: rtld.h
```

```
/* $NetBSD: rtld.h,v 1.71 2004/07/05 11:50:07 cube Exp $ */
```

```
/*
```

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```

File: print.c

```

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 */

/*

* Description: Implementation of printf

*/

=====
===

File: sys_mmap.c

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/*

* Author: Alex Webster

*/

=====
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File: alloc.c

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File: strlcatK.c

/* \$OpenBSD: strlcat.c,v 1.13 2005/08/08 08:05:37 espie Exp \$ */

/*

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File: strlcpyK.c

/*=====

strlcpyK.c

/*
*
*/

/* \$OpenBSD: strlcpy.c,v 1.11 2006/05/05 15:27:38
millert Exp \$ */

/*

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File: ecc_xml.py

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File: physpool_xml.py

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wlan_md_elf.h

/* \$NetBSD: exec_elf.h,v 1.81 2005/02/26 22:25:34 perry Exp \$ */

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File: secnlsfast.c

```

/* $Id: //components/rel/core.wpss/1.0/securemsm/crypto/shared/src/secnlsfast.c#1 $ */
/* nlsfast: NLS stream cipher and Mundja MAC -- fast implementation */

```

```

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File: curve25519.c

```

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```



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*/

/* This code is mostly taken from the ref10 version of Ed25519 in SUPERCOP
* 20141124 (http://bench.cr.yp.to/supercop.html).
*
* The field functions are shared by Ed25519 and X25519 where possible. */

```

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```

File: aes_core.h

Source:
https://source.codeaurora.org/quic/lc/native_client/pnacl-llvm-testsuite/MultiSource/Benchmarks/MiBench/security-rijndael/aes.h

```

-----
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```

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File: mode_hdr.h

```

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Issue Date: 07/10/2010

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File: gcm_sw.h

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Issue Date: 11/01/2011

I am grateful for the work done by Mark Rodenkirch and Jason Papadopoulos
in helping to remove a bug in the operation of this code on big endian
systems when fast buffer operations are enabled.

*/

=====
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File:

des_sw_cmn.c

```
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File: sha1_sw.c

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File: des_ecb_sw.c

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File:

aes_ctr_sw.c

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File: sha2512_sw.c

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File: pkey.h

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File: gf_mul_lo.h

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File: hmac_sw.c

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File: uclib_util.h

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File:
aes_ecb_sw.c

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File: sha2512_sw_cmn.c

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File: inffast.c

/* inffast.c -- fast decoding

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File: md32_common.h

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File: aes_cbc_cts_sw.c

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File: hash_sw_cmn.c

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pbkdf2.c

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File: aes_gcm_sw.c

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File: inflate.c

/* inflate.c -- zlib decompression

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File: inflate.h

/* inflate.h -- internal inflate state definition

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File: aes_ccm_sw.c

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File: sha2256_sw.c

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File: md5_sw.c

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File: infrees.c

/* infrees.c -- generate Huffman trees for efficient decoding

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File: hash.h

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File:ccm_sw.c

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File: md5_sw_cmn.c

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File: brg_endian.h

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Issue Date: 20/12/2007

*/

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File: trees.c

/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2016 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
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File: ccm_sw.h

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/* zutil.h -- internal interface and configuration of the compression library

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File: brg_types.h

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File:

sha_sw_cmn.c

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 * =====
 *
 */

=====
 =====

File: uncompr.c

/* uncompr.c -- decompress a memory buffer
 * Copyright (C) 1995-2003, 2010-2016 Jean-loup Gailly.
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

=====

File: sha2384_sw.c

/* =====
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* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* =====
*
*/

```

```

=====
===

```

File: gcm_sw.c

```

/*

```

```

-----
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```

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Issue Date: 30/03/2011

*/

=====
File: adler32.c

/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

=====
File: zutil.c

/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2005, 2010, 2011, 2012-2016 Jean-loup Gailly.
* For conditions of distribution and use, see copyright notice in zlib.h
*/

=====
File: compress.c

/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2016 Jean-loup Gailly.
* For conditions of distribution and use, see copyright notice in zlib.h
*/

=====
File: crc32.c

/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a

* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.

*/

=====

File: deflate.c

/* deflate.c --

compress data using the deflation algorithm

* Copyright (C) 1995-2016 Jean-loup Gailly and Mark Adler

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*/

=====

File: infback.c

/* infback.c -- inflate using a call-back interface

* Copyright (C) 1995-2016 Mark Adler

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*/

=====

File: deflate.h

/* deflate.h -- internal compression state

* Copyright (C) 1995-2016 Jean-loup Gailly

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*/

=====

File: gzguts.h

/* gzguts.h -- zlib internal header definitions for gz* operations

* Copyright (C) 2004, 2005, 2010, 2011, 2012-2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

=====

File: inffast.h

/* inffast.h -- header to use inffast.c

* Copyright (C) 1995-2003, 2010-2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

=====
File: md5c.c

/*====*====*====*====*====*====*====*====*====*====*====*====*====*====*====*

MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm

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*/

=====
File: platform_cmnos_printf.c

/*-

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*

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- */

=====

===

File: md5_api.h

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- */

- /*
- * MD5 hash implementation and interface functions
- * Copyright (c) 2003-2005, Jouni Malinen <jkmaline@cc.hut.fi>
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=====
===

File: if_ethersubr.h

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//  
// $Id:  
//components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_ethersubr.h  
#3 $  
//
```

```
=====  
===
```

File: aes_gcm.h

```
/* Galois/Counter Mode (GCM) and GMAC with AES  
*  
* Copyright (c) 2012, Jouni Malinen <j@w1.fi>  
*  
* This software may be distributed under the terms of the BSD license.  
* See README for more details.  
*/
```

```
=====  
===
```

File: aes_wrap.h

```
/* For this file, which was received with alternative licensing options for  
* distribution, Qualcomm Atheros, Inc. has selected the BSD license.  
*/
```

```
/*  
* AES-based functions  
*  
*  
* - AES Key Wrap Algorithm (128-bit  
  KEK) (RFC3394)  
* - One-Key CBC MAC (OMAC1) hash with AES-128  
* - AES-128 CTR mode encryption  
* - AES-128 EAX mode encryption/decryption  
* - AES-128 CBC  
*  
* Copyright (c) 2003-2005, Jouni Malinen <jkmaline@cc.hut.fi>  
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*/

=====
=

File: sha1.h

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* SHA1 hash implementation and interface functions
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*/

=====
===

File: sha2.h

/*
* FILE: sha2.h
* AUTHOR: Aaron D. Gifford - <http://www.aarongifford.com/>
*
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*

* \$Id: //depot/sw/branches/qca_rome_main/perf_pwr_offload/drivers/target/include/sha2.h#1 \$

*/

=====
===

File: ieee_crc32.c

/*

- * COPYRIGHT (C) 1986 Gary S. Brown. You may use this program, or
- * code or tables extracted from it, as desired without restriction.

*

* CRC32 code derived from work by Gary S. Brown.

*/

=====

File: crypto.h

/*

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*/

/*

- * WPA Supplicant / wrapper functions for crypto libraries
- * Copyright (c) 2004-2005, Jouni Malinen <jkmaline@cc.hut.fi>

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=====
===

File: md5.c

```
//  
//  
// This code implements the MD5 message-digest algorithm.  
// The algorithm is due to Ron Rivest. This code was  
// written by Colin Plumb in 1993, no copyright is claimed.  
// This code is in the public domain; do with it what you wish.  
//  
// Equivalent code is available from RSA Data Security, Inc.  
// This code has been tested against that, and is equivalent,  
// except that you don't need to include two pages of legalese  
// with every copy.  
//  
// To compute the message digest of a chunk of bytes, declare an  
// MD5Context structure, pass it to MD5Init, call MD5Update as  
// needed on buffers full of bytes, and then call MD5Final, which  
// will fill a supplied 16-byte array with the digest.  
//
```

=====
===

File:
sha1.c

```
/*  
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/*  
* SHA1 hash implementation and interface functions  
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=====
===

File: aes.c

/*
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*/

/*
* AES (Rijndael) cipher
*
* Modifications to public domain implementation:
* - support only 128-bit
* keys
* - cleanup
* - use C pre-processor to make it easier to change S table access
* - added option (AES_SMALL_TABLES) for reducing code size by about 8 kB at
* cost of reduced throughput (quite small difference on Pentium 4,
* 10-25% when using -O1 or -O2 optimization)
*
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*/

/*
* rijndael-alg-fst.c
*
* @version 3.0 (December 2000)
*
*/

```

* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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```

```

=====
===

```

File: aes_gcm.c

```

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```

```

=====

```

File: aes_wrap.c

```

/*
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*/

/*
* AES-based functions
*

```

- * - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
- * - One-Key CBC MAC (OMAC1) hash with AES-128
- * - AES-128 CTR mode encryption
- * - AES-128 EAX mode encryption/decryption
- * - AES-128 CBC
- *
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=====

File:

hca_HwComponentBbLithium_dfs_process_phyerr.cpp

```

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 */

```

=====

File:

hca_HwComponentBbLithium_dfs_process_radarevent.cpp

```
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```

=====

File: wmi_tlv_helper.c

```
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*/
```

=====
File: phyOsApiWindowsSem.c

/*

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*/

/*

Simple Windows replacement for POSIX semaphores

Modified by Daniel Tillett from libpthread <<http://github.com/songdongsheng/libpthread>>

Copyright (c) 2015, Daniel Tillett <daniel.tillett @ gmail.com>

*/

=====
===
File: phyOsApiWindowsSem.h

/*

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Copyright (c) 2015, Daniel Tillett <daniel.tillett @ gmail.com>

*/

=====
===

File: phyUtilsStrncpy.c

/* \$OpenBSD: strncpy.c,v 1.11 2006/05/05 15:27:38 millert Exp \$ */

/*-

* Copyright (c) 1998 Todd C. Miller <Todd.Miller@courtesan.com>

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File: wlan_defs.h

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File: dfs_nol.c

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=====

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File: dfs_staggered.c

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File: wma_dfs_interface.h

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File: phyrf_dfs.c

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File: cds_reg_service.c

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File: ath_dfs_structs.h

```

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File: wma_dfs_interface.c

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File: _ieee80211.h

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File: dfs.h

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File: dfs_bindetects.c

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File: dfs_interface.h

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File: cds_ieee80211_common.h

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File: dfs_debug.c

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File: dfs_ioctl.h

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File: cds_ieee80211_common_i.h

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File: dfs_fcc_bin5.c

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File: cds_reg_service.h

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File: dfs_misc.c

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File: common.h
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wpa_i.h

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//
// $Id:
//components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
// $NetBSD: if_llc.h,v 1.12 1999/11/19 20:41:19 thorpej Exp $
// $Id:

//components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
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- *
- * @(#)if_llc.h 8.1 (Berkeley) 6/10/93
- * \$FreeBSD: src/sys/net/if_llc.h,v
- 1.9 2002/09/23 06:25:08 alfred Exp \$
- */

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===

File: wlan_mlme_wmi.c

```
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File: apf_interpreter.c

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File: wlan_p2p_listen_offload_int.h

```
/*
```

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```

```

=====

```

File: sha256-kdf.c

```

/*
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```

=====

```

File: sha2.c

```

/*
* FILE: sha2.c
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File: my_nan_sec.c

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```

File: aes-ctr.c

```

/*

```

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File: wmi_vendor.h

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File: sha384-internal.c

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File: wlan_p2p_disc_offload_internal.h

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File: mywpa_common.c

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File: sha384.h

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File: fils.c

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File: mywpa_common.h

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File: sha384_i.h

```
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File: fils.h

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File: sha512-internal.c

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File: sha512_i.h

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File: wmi_unified_priv.h

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File:
wal_dfs.h

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File: wlan_p2p_disc_offload.c

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File: wlan_p2p_listen_offload_int.c

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File: hca_HwComponentBbLithium_dfs_phyerr_tlv.cpp

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File: radar_filters.h

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File: sm4_core.h

/**

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File:
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* Author: Malcolm Purvis <malcolmp@ok-labs.com>

* Author: Carlos Dyonisio <medaglia@ok-labs.com>

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File: qurt_atomic_ops.h

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- * Author: Malcolm Purvis <malcolmp@ok-labs.com>

/*

- * This file is only included by the main atomic_ops.h, so all of that
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File: tailq.h

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 * Author: Alex Webster

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File: htt_common.h

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File: htt_ppdu_stats.h

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File: wdi_ipa.h

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File: wlan_defs.h

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/*

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=====
File: wlan_nan_msg_common.h

```

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File: wlan_nan_msg_common_v2.h

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File: wmi_services.h

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File: wmi_tlv_defs.h

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File: wmi_tlv_helper.h

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File: wmi_unified_vendor.h

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File: wmi_version.h

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File: cepci.h

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File: dbglog.h

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*/

=====
File: htc_services.h

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File: ip_prot.h

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=====
File: ipv4.h

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File: ipv6.h

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=====
File: ol_fw_tx_dbg.h

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File: queue.h

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*/

=====
File: stail_queue.h

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// OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
// SUCH DAMAGE.
//
// @(#)queue.h 8.5 (Berkeley) 8/20/94
// $FreeBSD: src/sys/sys/queue.h,v 1.58 2004/04/07 04:19:49 imp Exp $
// $Id: //components/rel/wlanfw_cmn.cnss/1.0/cnss_proc/wlan/fwcommon/include/queue.h#1 $
//
```

```
=====
File: targaddrs.h
```

```
/*
```

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```

```
*
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File: targcfg.h

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*/

=====
File: wal_rx_desc.h

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=====
File: wlan_module_ids.h

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=====
File: aes_gcm.h

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=====
File: aes_wrap.h

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```

/*
 * AES-based functions
 *
 *
 * - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
 * - One-Key CBC MAC (OMAC1) hash with AES-128
 * - AES-128 CTR mode encryption
 * - AES-128 EAX mode encryption/decryption
 * - AES-128 CBC
 *
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```

```

=====

```

File: md5_api.h

```

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```

```

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```

```

=====

```

File: sha1.h

```

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```

*/

/*

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=====

File: sha2.h

/*

- * FILE: sha2.h
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- *
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```
* SUCH DAMAGE.
*
* $Id: //depot/sw/branches/qca_rome_main/perf_pwr_offload/drivers/target/include/sha2.h#1
$
*/
```

```
=====
File: wal_dfs.h
```

```
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```

```
=====
File:
```

```
if_ethersubr.h
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//
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_ethersubr.h#3 $
//
```

```
=====
```

File: wal_phy_dev.h

```
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 */
```

```
=====
```


File: wal_virtual_dev.h

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File:

wal_dfs.c

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File:

ieee_crc32.c

/*

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* code or tables extracted from it, as desired without restriction.

*

* First, the polynomial itself and its table of feedback terms. The

* polynomial is

* $X^{32}+X^{26}+X^{23}+X^{22}+X^{16}+X^{12}+X^{11}+X^{10}+X^8+X^7+X^5+X^4+X^2+X^1+X^0$

*

* Note that we take it "backwards" and put the highest-order term in
* the lowest-order bit. The X^{32} term is "implied"; the LSB is the
* X^{31} term, etc. The X^0 term (usually shown as "+1") results in
* the MSB being 1

*

* Note that the usual hardware shift register implementation, which
* is what we're using (we're merely optimizing it by doing eight-bit
* chunks at a time) shifts bits into the lowest-order term. In our
* implementation, that means shifting towards the right. Why do we
* do it this way? Because the calculated CRC must be transmitted in
* order from highest-order term to lowest-order term. UARTs transmit
* characters in

order from LSB to MSB. By storing the CRC this way

* we hand it to the UART in the order low-byte to high-byte; the UART
* sends each low-bit to high-bit; and the result is transmission bit
* by bit from highest- to lowest-order term without requiring any bit
* shuffling on our part. Reception works similarly

*

* The feedback terms table consists of 256, 32-bit entries. Notes

*

* The table can be generated at runtime if desired; code to do so
* is shown later. It might not be obvious, but the feedback
* terms simply represent the results of eight shift/xor opera
* tions for all combinations of data and CRC register values

*

* The values must be right-shifted by eight bits by the "updcrc
* logic; the shift must be unsigned (bring in zeroes). On some
* hardware you could probably optimize the shift in assembler by
* using byte-swap instructions
* polynomial \$edb88320

*

*

* CRC32 code derived from work by Gary S.

Brown.

*/

=====

File: aes.c

/*

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/*

* AES (Rijndael) cipher

*

* Modifications to public domain implementation:

```

* - support only 128-bit keys
* - cleanup
* - use C pre-processor to make it easier to change S table access
* - added option (AES_SMALL_TABLES) for reducing code size by about 8 kB at
  cost of reduced throughput (quite small difference on Pentium 4,
* 10-25% when using -O1 or -O2 optimization)
*
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*/

/*
* rijndael-alg-fst.c
*
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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*/
=====
File: aes_gcm.c

```

```

/*
 * Galois/Counter Mode (GCM) and GMAC with AES
 *
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=====

File: aes_wrap.c
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/*
 * AES-based functions
 *
 * - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
 * - One-Key CBC MAC (OMAC1) hash with AES-128
 * - AES-128 CTR mode encryption
 * - AES-128 EAX mode encryption/decryption
 * - AES-128 CBC
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File: common.h
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/*
 * wpa_supplicant/hostapd / common helper functions, etc.
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```

```

=====
File: crypto.h

```

```

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* WPA Supplicant / wrapper functions for crypto libraries
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*
* This file defines the cryptographic functions that need to be implemented
* for wpa_supplicant and hostapd. When TLS is not used, internal
* implementation of MD5, SHA1, and AES is used and no external libraries are
* required. When TLS
* is enabled (e.g., by enabling EAP-TLS or EAP-PEAP), the
* crypto library used by the TLS implementation is expected to be used for
* non-TLS needs, too, in order to save space by not implementing these
* functions twice.
*
* Wrapper code for using each crypto library is in its own file (crypto*.c)
* and one of these files is build and linked in to provide the functions
* defined here.
*/

```

```

=====
File: md5.c

```

```

//
// $Id: //depot/sw/branches/qca_main_wifi2.0/perf_pwr_offload/drivers/target/src/misc/crypto/md5.c#1 $
//
// This code implements the MD5 message-digest algorithm.

```

```
// The algorithm is due to Ron Rivest. This code was
// written by Colin Plumb in 1993, no copyright is claimed.
// This code is in the public domain; do with it what you wish.
//
// Equivalent code is available from RSA Data Security, Inc.
// This code has been tested against that, and is equivalent,
// except that you don't need to
// include two pages of legalese
// with every copy.
//
// To compute the message digest of a chunk of bytes, declare an
// MD5Context structure, pass it to MD5Init, call MD5Update as
// needed on buffers full of bytes, and then call MD5Final, which
// will fill a supplied 16-byte array with the digest.
//
```

```
=====
File: sha1.c
```

```
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/*
 * SHA1 hash implementation and interface functions
 * Copyright (c) 2003-2005, Jouni Malinen <jkmaline@cc.hut.fi>
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 */
```

```
=====
File:
```

```
cil.h
```

```
/* =====
 * $File: //depot/sw/branches/qca_main_wifi2.0/perf_pwr_offload/drivers/target/include/cil.h $
 * $Revision: #1 $
 * $Date: 2013/07/12 $
 * $Change: 2108597 $
 *
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File: dwc_dev.h

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* ===== */

=====
File:

dwc_os_dev.h

/* =====

* \$File: //depot/sw/branches/qca_main_wifi2.0/perf_pwr_offload/drivers/target/include/os_dev.h \$

* \$Revision: #1 \$

* \$Date: 2013/07/12 \$

* \$Change: 2108597 \$

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* ===== */

=====

File: pcd.h

```
/* =====
* $File: //depot/sw/branches/qca_main_wifi2.0/perf_pwr_offload/drivers/target/include/pcd.h $
* $Revision: #1 $
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* ===== */
```

File: whal_api.h

```
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/*

=====
File: queue.h

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//
// @(#)queue.h 8.5 (Berkeley) 8/20/94
// $FreeBSD: src/sys/sys/queue.h,v 1.58 2004/04/07 04:19:49 imp Exp $
// $Id: //depot/sw/branches/qca_main_wifi2.0/perf_pwr_offload/drivers/target/src/sim_wifi_ip02/include/queue.h#2
$
//
=====
File: platform_cmnos_printf.c
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=====

File: hca_HwComponentBbLithium_dfs_phyerr_tlv.cpp

```
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```

=====

File: hca_HwComponentBbLithium_dfs_process_phyerr.cpp

```
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 File: phyOsApiWindowsSem.h

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Simple Windows replacement for POSIX semaphores

Modified by Daniel Tillett from libpthread <<http://github.com/songdongsheng/libpthread>>

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*/

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*/

=====
File: phyUtilsStrlcpy.c

/* \$OpenBSD: strlcpy.c,v 1.11 2006/05/05 15:27:38 millert Exp \$ */

/*_

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File: _ieee80211.h

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=====
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File: qdf_net_types.h

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* wpa_supplicant/hostapd / common helper functions, etc.

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File:
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```
if_llc.h
```

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//
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
// $NetBSD: if_llc.h,v 1.12 1999/11/19 20:41:19 thorpej Exp $
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
//

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* @(#)if_llc.h 8.1 (Berkeley) 6/10/93
* \$FreeBSD: src/sys/net/if_llc.h,v 1.9 2002/09/23 06:25:08 alfred Exp \$
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File: suppl_auth_api.h

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File: sha2.c

/*

* FILE: sha2.c

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*/

=====
File: wlan_p2p_disc_offload.c

/*
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* distribution, Qualcomm Technologies, Inc. has selected the BSD license.
*/
/*
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*/
/*
* Wi-Fi Protected Setup - attribute parsing
* Copyright (c) 2008, Jouni Malinen <j@w1.fi>
*
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* See README for more details.
*/

=====
File: wlan_p2p_disc_offload_internal.h

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*/
/*
* Wi-Fi Protected Setup - message definitions
* Copyright (c) 2008, Jouni Malinen <j@w1.fi>
*
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*/

=====
File: aes-ctr.c

/*
* AES-128/192/256 CTR
*
* Copyright (c) 2003-2007, Jouni Malinen <j@w1.fi>
*
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* See README for more details.

*/

=====
File: aes-siv.c

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*/

/*

* AES SIV (RFC 5297)
* Copyright (c) 2013 Cozybit, Inc.

*

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* See README for more details.

*/

=====
File: aes_siv.h

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* AES SIV (RFC 5297)
* Copyright (c) 2013 Cozybit, Inc.

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=====
File: crypto.h

/*

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*/

/*

* WPA Supplicant / wrapper functions for crypto libraries
* Copyright (c) 2004-2005, Jouni Malinen <jkmaline@cc.hut.fi>

*

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```

*
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*
* This file defines the cryptographic functions that need to be implemented
* for wpa_supplicant and hostapd. When TLS is not used, internal
* implementation of MD5, SHA1, and AES is used and no external libraries are
* required. When TLS is enabled
(e.g., by enabling EAP-TLS or EAP-PEAP), the
* crypto library used by the TLS implementation is expected to be used for
* non-TLS needs, too, in order to save space by not implementing these
* functions twice.
*
* Wrapper code for using each crypto library is in its own file (crypto*.c)
* and one of these files is build and linked in to provide the functions
* defined here.
*/

```

```

=====
File: fils.c

```

```

/* WPA/RSN - Shared functions for supplicant and authenticator
* EAP common peer/server definitions
* EAP peer state machines (RFC 4137)
* Copyright (c) 2002-2018, Jouni Malinen <j@w1.fi>
*
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*/

```

```

=====
File: fils.h

```

```

/*
* WPA/RSN - Shared functions for supplicant and authenticator
* EAP common peer/server definitions
* EAP
peer state machines (RFC 4137)
* Copyright (c) 2002-2018, Jouni Malinen <j@w1.fi>
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*/

```

```

=====
File: m1_m4_frame.c

```

```

/*
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*/
/* RC4 stream cipher
* Copyright (c) 2002-2005, Jouni Malinen <j@w1.fi>

```

```

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*/

=====

File: my_nan_sec.c
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/*
* WPA Supplicant - WPA state machine and EAPOL-Key processing
* Copyright (c) 2003-2005, Jouni Malinen
* <jkmaline@cc.hut.fi>
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*/

=====

File: mywpa_common.c
/*

```

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* Copyright (c) 2002-2018, Jouni Malinen <j@w1.fi>
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*/

=====
File: mywpa_common.h

/*
* WPA definitions shared between hostapd and wpa_supplicant
* Copyright (c) 2002-2018, Jouni Malinen <j@w1.fi>
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=====
File: mywpa_ft.c

/*
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/*
* WPA Supplicant - IEEE
802.11r - Fast BSS Transition
* Copyright (c) 2006-2007, Jouni Malinen <j@w1.fi>

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File: mywpa_ft.h

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=====

File: sha256.c

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/*
* SHA-256 hash implementation and interface functions
* Copyright (c) 2003-2007, Jouni Malinen <j@w1.fi>
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File: sha256.h

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*/

=====
File: sha256-kdf.c

/*
* HMAC-SHA256 KDF (RFC 5295) and HKDF-Expand(SHA256) (RFC 5869)
* Copyright (c) 2014-2017, Jouni Malinen <j@w1.fi>
*
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=====
File: sha384.c

/*
* SHA-384 hash implementation and interface functions
* Copyright (c) 2003-2017,
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*
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*/

=====
File: sha384.h

/*
* SHA384 hash implementation and interface functions
* Copyright (c) 2015-2017, Jouni Malinen <j@w1.fi>
*
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*/

=====
File: sha384_i.h

/*
* SHA-384 internal definitions
* Copyright (c) 2015, Pali Rohar <pali.rohar@gmail.com>
*
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*/

=====
File: sha384-internal.c

/*
* SHA-384 hash implementation and interface functions

* Copyright (c) 2015, Pali Rohr <pali.rohar@gmail.com>

*

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*/

=====
File: sha384-prf.c

/*

* SHA384-based KDF (IEEE 802.11ac)

* Copyright (c) 2003-2017, Jouni Malinen <j@w1.fi>

*

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*/

=====
File: sha512_i.h

/*

* SHA-512 internal definitions

* Copyright (c) 2015, Pali Rohr <pali.rohar@gmail.com>

*

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*/

=====
File: sha512-internal.c

/*

* SHA-512 hash implementation and interface functions

* Copyright (c) 2015, Pali Rohr <pali.rohar@gmail.com>

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*/

=====
File: stringl.h

/* \$OpenBSD: string.h,v 1.17 2006/01/06 18:53:04 millert Exp \$ */

/* \$NetBSD: string.h,v 1.6 1994/10/26 00:56:30 cgd Exp \$ */

/*-

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* @(#)string.h 5.10 (Berkeley) 3/9/91

*/

=====
File: strlcpy.c

/* \$OpenBSD: strlcpy.c,v

1.11 2006/05/05 15:27:38 millert Exp \$ */

/*

* Copyright (c) 1998 Todd C. Miller <Todd.Miller@courtesan.com>

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*/

=====
File: lz.c

```

//
// Name:    lz.c
// Author:   Marcus Geelnard
// Description:
// LZ77 coder/decoder implementation.
// Reentrant:  Yes
// $ATH_LICENSE_NULL$
//
// The LZ77 compression scheme is a substitutional compression scheme
// proposed by Abraham Lempel and Jakob Ziv in 1977. It is very simple in
// its design, and uses no fancy bit level compression.
//
// This is my first attempt at an implementation of a LZ77 code/decoder.
//
// The principle of the LZ77 compression algorithm is to store repeated
// occurrences of strings as references to previous occurrences of the same
// string. The point is that the reference consumes less space than the
// string itself, provided that the string is long enough (in this
// implementation, the string has to be at least 4 bytes long, since the
// minimum coded reference is 3 bytes long). Also note that the term
// "string" refers to any kind of byte sequence (it does not have to be
// an ASCII string, for instance).
//
// The coder uses a brute force approach to finding string matches in the
// history buffer
// (or "sliding window", if you wish), which is very, very
// slow. I recon the complexity is somewhere between  $O(n^2)$  and  $O(n^3)$ ,
// depending on the input data.
//
// There is also a faster implementation that uses a large working buffer
// in which a "jump table" is stored, which is used to quickly find
// possible string matches (see the source code for LZ_CompressFast() for
// more information). The faster method is an order of magnitude faster,
// but still quite slow compared to other compression methods.
//
// The upside is that decompression is very fast, and the compression ratio
// is often very good.
//
// The reference to a string is coded as a (length,offset) pair, where the
// length indicates the length of the string, and the offset gives the
// offset from the current data position. To distinguish between string
// references and literal strings (uncompressed bytes), a string reference
// is preceded by a marker byte, which is chosen as the least common byte
// symbol in
// the input data stream (this marker byte is stored in the
// output stream as the first byte).
//
// Occurrences of the marker byte in the stream are encoded as the marker

```

```

// byte followed by a zero byte, which means that occurrences of the marker
// byte have to be coded with two bytes.
//
// The lengths and offsets are coded in a variable length fashion, allowing
// values of any magnitude (up to 4294967295 in this implementation).
//
// With this compression scheme, the worst case compression result is
// (257/256)*insize + 1.
//
//-----
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//
// Marcus Geelnard
// marcus.geelnard at home.se
//

```

```

=====
File: lz.h
//
// Name:      lz.h
// Author:    Marcus Geelnard
// Description: LZ77 coder/decoder interface.
// Reentrant: Yes
// -----
// $ATH_LICENSE_NULL$
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//
// Marcus Geelnard
// marcus.geelnard at home.se
//

```

```

=====
File: arm_common_tables.h

```

```

/* -----

```

```

*

```

```

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```

```

*

```

```

* $Date: 19. October 2015

```

```

* $Revision: V.1.4.5 a

```

```

*

```

```

* Project: CMSIS DSP Library

```

```

* Title: arm_common_tables.h

```

```

*

```

```

* Description: This file has extern declaration for common tables like Bitreverse, reciprocal etc which are used
across different functions

```

```

*

```

```

* Target Processor: Cortex-M4/Cortex-M3

```

```

*

```

```

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* -----

*/

=====

File: arm_const_structs.h

/* -----

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*

* \$Date: 19. March 2015

* \$Revision: V.1.4.5

*

* Project: CMSIS DSP Library

* Title: arm_const_structs.h

*

* Description: This file has constant structs that are initialized for

* user convenience. For example, some can be given as

* arguments to the arm_cfft_f32() function.

*

* Target Processor: Cortex-M4/Cortex-M3

*

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- * ----- */

=====

File: arm_math.h

```
/* -----
 * Copyright (C) 2010-2015 ARM Limited. All rights reserved.
 *
 * $Date:    20. October 2015
 * $Revision: V1.4.5 b
 *
 * Project:   CMSIS DSP Library
 * Title:    arm_math.h
 *
 * Description: Public header file for CMSIS DSP Library
 *
 * Target Processor: Cortex-M7/Cortex-M4/Cortex-M3/Cortex-M0
 *
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 * ----- */

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//
// $Id: //depot/sw/qca_main/components/wlan/qca-wifi-fw/1.0/drivers/target/src/wlan/proto/include/if_llc.h#2 $
// $NetBSD: if_llc.h,v 1.12 1999/11/19 20:41:19
// thorpej Exp $
// $Id: //depot/sw/qca_main/components/wlan/qca-wifi-fw/1.0/drivers/target/src/wlan/proto/include/if_llc.h#2 $
//

```

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*
* @(#)if_llc.h 8.1 (Berkeley) 6/10/93
* $FreeBSD: src/sys/net/if_llc.h,v 1.9 2002/09/23 06:25:08 alfred Exp $
*/

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wlan/protocol/src/include/if_llc.h#1

```

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//
```

```
wlan/protocol/support/lz77/lz.h#1
wlan/protocol/support/lz77/lz.c#1
```

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```

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wlan/mac_core/tests/serflash/flashprog/uncompr.c#1

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```
//
// @(#)queue.h 8.5 (Berkeley) 8/20/94
// $FreeBSD: src/sys/sys/queue.h,v 1.58 2004/04/07 04:19:49 imp Exp $
//
```

wlan/include/queue.h#1

```
=====
=====
```

```
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 * SHA1 hash implementation and interface functions
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wlan/mac_core/include/sha1.h
wlan/mac_core/romexport/AR900B/hw.1/include/sha1.h
wlan/mac_core/romexport/AR900B/hw.2/include/sha1.h

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```
=====
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```

```
/*
 * FILE:    sha2.h
```

```

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*
* $Id: //depot/sw/branches/qca_rome_main/perf_pwr_offload/drivers/target/include/sha2.h#1 $
*/

wlan/mac_core/romexport/AR900B/hw.1/include/sha2.h
wlan/mac_core/romexport/AR900B/hw.2/include/sha2.h

=====

/*
 * AES-based functions
 *
 *
 * - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
 * - One-Key CBC MAC (OMAC1) hash with AES-128
 * - AES-128 CTR mode encryption
 * - AES-128 EAX mode encryption/decryption
 * - AES-128 CBC

```

```

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```

```

wlan/mac_core/include/aes_wrap.h
wlan/mac_core/romexport/AR900B/hw.1/include/aes_wrap.h
wlan/mac_core/romexport/AR900B/hw.2/include/aes_wrap.h

```

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wlan/mac_core/romexport/AR900B/hw.1/include/md5.h
wlan/mac_core/romexport/AR900B/hw.2/include/md5.h

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/*

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wlan/mac_core/romexport/AR900B/hw.1/include/seccommon.h
 wlan/mac_core/romexport/AR900B/hw.2/include/seccommon.h

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/* Modified by Synopsys, Inc, 12/12/2007 */

wlan/mac_core/include/usb.h
wlan/mac_core/romexport/AR900B/hw.1/include/usb.h
wlan/mac_core/romexport/AR900B/hw.2/include/usb.h

```
=====
=====

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wlan/mac_core/include/cil.h
wlan/mac_core/romexport/AR900B/hw.1/include/cil.h
wlan/mac_core/romexport/AR900B/hw.2/include/cil.h
wlan/mac_core/include/dev.h
wlan/mac_core/romexport/AR900B/hw.1/include/dev.h
wlan/mac_core/romexport/AR900B/hw.2/include/dev.h
wlan/mac_core/include/os_dev.h
wlan/mac_core/romexport/AR900B/hw.1/include/os_dev.h
wlan/mac_core/romexport/AR900B/hw.2/include/os_dev.h
wlan/mac_core/include/usb3_hw.h
wlan/mac_core/romexport/AR900B/hw.1/include/usb3_hw.h
wlan/mac_core/romexport/AR900B/hw.2/include/usb3_hw.h
wlan/mac_core/include/pcd.h
wlan/mac_core/romexport/AR900B/hw.1/include/pcd.h
wlan/mac_core/romexport/AR900B/hw.2/include/pcd.h

=====
=====

/*
* \$Header: //source/qcom/qct/core/api/kernel/main/latest/libstd/stringl/stringl.h#13 \$
* \$DateTime: 2013/07/24 11:35:54 \$
*/

/* \$OpenBSD: string.h,v 1.17 2006/01/06 18:53:04 millert Exp \$ */
/* \$NetBSD: string.h,v 1.6 1994/10/26 00:56:30 cgd Exp \$ */

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*
* @(#)string.h 5.10 (Berkeley) 3/9/91
*/

wlan/protocol/support/bin2srec/include/stringl/stringl.h

=====
=====

/*
* \$Header: //source/qcom/qct/core/kernel/libstd/main/latest/src/strncpy.c#1 \$
* \$DateTime: 2011/01/07 17:50:19 \$
*/

/* \$OpenBSD: strncpy.c,v 1.11 2006/05/05 15:27:38 millert
Exp \$ */

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wlan/protocol/support/bin2srec/strncpy.c

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agere_sta_fw.bin -- 9.48 Hermes I

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Fast discrete

Fourier and cosine transforms and inverses

author: Monty <xiphmont@mit.edu>

modifications by: Monty

last modification date: Jul 1 1996

/* These Fourier routines were originally based on the Fourier routines of the same names from the NETLIB bihar and fftpack fortran libraries developed by Paul N. Swarztrauber at the National Center for Atmospheric Research in Boulder, CO USA. They have been reimplemented in C and optimized in a few ways for OggSquish. */

/* As the original fortran libraries are public domain, the C Fourier routines in this file are hereby released to the public domain as well. The C routines here produce output exactly equivalent to the original fortran routines. Of particular interest are the facts that (like the original fortran), these routines can work on arbitrary length vectors that need not be powers of two in length. */

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Firmware provided as part of an XC5000C Linux developers kit by Ramon Cazares <Ramon.Cazares@CrestaTech.com> to Devin Heitmueller dheitmueller@linuxtv.org

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1.127 python-peewee 3.17.9

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1.130 python-klein 24.8.0

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1.133 sudo 1.9.17p1

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Adler, Mark
Allbery, Russ
Anderson, Jamie
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Bellis, Ray
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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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version 0.1

##

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=====
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```
#####  
## Constant-time SSSE3 AES core implementation.  
## version 0.1  
##  
## By Mike Hamburg (Stanford University), 2009  
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##  
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1.135 sqlite 2025-07-17

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-----

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> ~~~

./configure && make

~~~

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- * The ["autosetup"](<http://msteveb.github.io/autosetup/>) configuration

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```
> ~~~  
rm -rf configure autoseup autoconf  
~~~
```

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autoseup - A build environment "autoconfigurator"

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1.136 grep 3.12

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```
#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H
```

```
/* This file uses _GL_ATTRIBUTE_PURE. */
#if !_GL_CONFIG_H_INCLUDED
#error "Please include config.h first."
#endif
```

```
#include <stddef.h>
```

```
#ifndef
DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif
```

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


#endif

/* Return the address of the last file name component of FILENAME.

If FILENAME has some trailing slash(es), they are considered to be part of the last component.

If FILENAME has no relative file name components because it is a file system root, return the empty string.

Examples:

FILENAME	RESULT
"foo.c"	"foo.c"
"foo/bar.c"	"bar.c"
"/foo/bar.c"	"bar.c"
"foo/bar/"	"bar/"
"foo/bar/"	"bar/"
"/"	""
"/"	""
""	""

The return value is a tail of the given FILENAME; do NOT free() it! */

/* This function was traditionally called 'basename', but we avoid this function name because

* Various platforms have different functions in their libc.

In particular, the glibc basename(),

defined in <string.h>, does

not consider trailing slashes to be part of the component:

FILENAME	RESULT
"foo/bar/"	""
"foo/bar/"	""

* The 'basename' command eliminates trailing slashes and for a root produces a non-empty result:

FILENAME	RESULT
"foo/bar/"	"bar"
"foo/bar/"	"bar"
"/"	"/"
"/"	"/"

*/

extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.

Typically FILENAME is the value returned by base_name or last_component.

Act like strlen (FILENAME), except omit all trailing slashes. */

extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;

#ifdef __cplusplus

} /* extern "C" */

#endif

#endif /* _BASENAME_LGPL_H */
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Version 3, 29 June 2007

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1.137 dpkg 1.22.21

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```

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```
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```

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

```
Ty Coon, President of Vice
```

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/* nicstar.c v0.22 Jawaid Bazayar (bazayar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazayar, 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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```

```
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```

```
static inline int license_is_gpl_compatible(const char *license)
```

```
{
```

```
    return (strcmp(license, "GPL") == 0
```

```
        || strcmp(license, "GPL v2") == 0
```

```
        || strcmp(license, "GPL and additional rights") == 0
```

```
        || strcmp(license, "Dual BSD/GPL") == 0
```

```
        || strcmp(license, "Dual MIT/GPL") == 0
```

```
        || strcmp(license, "Dual MPL/GPL") == 0);
```

```
}
```

```
#endif
```

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1.140 apache-http-server 2.4.64

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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=UTF-8" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    -->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css"
/>
<script src="/style/scripts/prettify.min.js" type="text/javascript">
```


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</div>

</div>

<div class="bottomlang">

<p>Available Languages: en </p>

</div><div class="top"></div><div>

```

class="section"><h2><a id="comments_section" name="comments_section">Comments</a></h2><div
class="warning"><strong>Notice:</strong><br
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documentation or server, and may be removed by our moderators if they are either implemented or considered
invalid/off-topic. Questions on how to manage the Apache HTTP Server should be directed at either our IRC
channel, #httpd, on Libera.chat, or sent to our <a href="https://httpd.apache.org/lists.html">mailing lists</a>.</div>
<script type="text/javascript"><!--<!--><![CDATA[//<!--
var comments_shortcode = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write('<div id="comments_thread"></div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortcode + '&page=' +
comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
  }
})(window, document);
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href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--<!--><![CDATA[//<!--
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  prettyPrint();
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*/

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```

/*****
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* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*
*****/
*
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*
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

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Michael Campanella (campanella@stevms.enet.dec.com)

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

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

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.
=20Dmike

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

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> 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 I91GxtpR020623
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-56FBFE6E9F@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

1.142 ed 1.21

1.142.1 Available under license :

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Version 3, 29 June 2007

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1.146 python-netifaces 1.1.0

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1.148 erlang-otp 26.2.5.15

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THE BASIC LIBRARY FUNCTIONS

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* Version: 2.71
* Website: <https://www.gnu.org/software/autoconf/>
* OTP Location: ./make/configure and
 ./erts/configure and
 ./lib/erl_interface/configure and
 ./lib/crypto/configure and
 ./lib/wx/configure and
 ./lib/megaco/configure and
 ./lib/snmp/configure and
 ./lib/odbc/configure and
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* Version: 2.71
* Website:
<https://www.gnu.org/software/autoconf/>
* OTP Location: ./make/autoconf/config.{guess,sub} and

./erts/autoconf/config.{guess,sub} and
./lib/common_test/test_server/config.{guess,sub}

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#

Originally written by Per Bothner; maintained since 2000 by Ben Elliston.

#

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* Library: TCL
* Version 7.6
* Website: <https://www.tcl.tk/>
* OTP Location: ./erts/emulator/beam/erl_posix_str.c

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- * Git Repository: <https://github.com/asmjit/asmjit>
- * Commit: 915186f6c5c2f5a4638e5cb97ccc23d741521a64
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[zlib]

*

Info:

* SPDX-License-Identifier: Zlib

* Library: Zlib

* Version: 1.2.13

* Website: <https://zlib.net/>

* OTP Location: ./erts/emulator/zlib

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.13, October 13th, 2022

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

*/

[ryu]

* Info:

* SPDX-License-Identifier: Apache-2.0 OR BSL-1.0

* Library: RYU

* Git repository: <https://github.com/ulfjack/ryu>

* Commit: 844864ac213bdbf1fb57e6f51c653b3d90af0937

* OTP Location: ./erts/emulator/ryu

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[to_chars() function in ryu]

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* Library: STL

* Git repository: <https://github.com/microsoft/STL>
* Commit: e745bad3b1d05b5b19ec652d68abb37865ffa454
* Original function:
https://github.com/microsoft/STL/blob/e745bad3b1d05b5b19ec652d68abb37865ffa454/stl/inc/xcharconv_ryu.h#L1926
* OTP Location: ./erts/emulator/ryu/d2s.c:to_chars()

// xcharconv_ryu.h internal header

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* Info:
* SPDX-License-Identifier: MIT
* Library: FP16

* Git Repository: <https://github.com/Maratyszczka/FP16>
* Commit: 0a92994d729ff76a58f692d3028ca1b64b145d91
* OTP Location: ./erts/emulator/beam/erl_bits_f16.h

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* Library: OpenSSL
* Version: 3.1.4
* Git Repository: <https://github.com/openssl/openssl>
* Commit: 01d5e2318405362b4de5e670c90d9b40a351d053
* OTP Location: ./erts/emulator/openssl and
 ./lib/erl_interface/src/openssl

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* Git Repository: <https://github.com/etnt/eldap.git>
* Commit: 36c595f56c12a44adbc942eef218df85137cbbee
* OTP Location: ./lib/eldap/src/eldap.erl

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- * Commit: dc585039bbd426829e3433002023a93f9bedd0c2
- * OTP Location: ./lib/wx/doc/src

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[wx webview2 loader on windows]

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- * Git Repository: <https://github.com/jquery/jquery>
- * Version: 3.7.1
- * Commit: f79d5f1a337528940ab7029d4f8bbba72326f269
- * Website: <https://jquery.com/>
- * OTP Location: ./lib/common_test/priv/jquery-latest.js

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- * Git Repository: <https://github.com/Mottie/tablesorter>
- * Version: 2.32
- * Commit: 1423f5408982f58d5baa97648d2e5ee0b55fd3b6
- * OTP Location: ./lib/common_test/priv/jquery.tablesorter.min.js

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1.151 sqlite 3.50.3

1.151.1 Available under license :

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May you find forgiveness for yourself and forgive others.

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1.152 vim 9.1.1616

1.152.1 Available under license :

uganda.txt For Vim version 9.1. Last change: 2025 Jul 08

VIM REFERENCE MANUAL by Bram Moolenaar

uganda *Uganda* *copying* *copyright* *license*
SUMMARY

iccf *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

<https://iccf-holland.org/>
<https://www.vim.org/iccf/>
<https://www.iccf.nl/>

You can also sponsor the development of Vim, see |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see |manual-copyright|.

The icons used for the toolbar in the Win32 GUI are from the "Farm-Fresh Web Icons" set. These icons are licensed under the Creative Commons Attribution 3.0 License and were created by FatCow Web Hosting. They were previously available at <http://www.fatcow.com/free-icons> and are still available at: <https://www.iconarchive.com/show/farm-fresh-icons-by-fatcow.1.html>

===

begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

1) This license text must be included unmodified.

2) The modified Vim must be distributed in one of the following five ways:

a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must

make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainers are listed here: <https://github.com/orgs/vim/people>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I).

If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official

version of Vim without fee or restriction.

- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer

or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.

- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be

removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is
<maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.
- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.
- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.
- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.
- This license applies to the source code of Vim. However, different license conditions may apply to some runtime files included with Vim; these will be specified in the header of each respective file.

=====

Kibaale

Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there usually is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that in the past 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. Although AIDS is now mostly under control, the problems are still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income

(if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a clinic at the project, which provides children and their family medical help. Since 2020 a maternity ward was added and 24/7 service is available. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer

1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have

visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send e-mail: <Bram@vim.org>.

The address of the centre is:

Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.

If you must send a check send it to our Canadian partner:

<https://www.kuwasha.net/>

Canada: Contact

Kuwasha in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. Kuwasha forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.

Look on their site for information about sponsorship:

<https://www.kuwasha.net/>

If you make a donation to Kuwasha you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Amersfoort. This will allow for tax deduction if you live in Holland. ING bank, IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.

Check the ICCF web site for the latest information:

<https://iccf-holland.org/germany.html>

Europe: Use a bank transfer if possible. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is

the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q

The e-mail address for sending the money to is:

Bram@iccf-holland.org

Others: Transfer to this account if possible:

ING bank: IBAN: NL95 INGB 0004 5487 74

Swift code: INGBNL2A

under the name "stichting ICCF Holland", Amersfoort

Checks are not accepted.

vim:tw=78:ts=8:noet:ft=help:norl:

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Nota: Agli effetti legali ha valore non la seguente traduzione italiana, ma l'originale inglese su cui basata. alla versione inglese che si fa riferimento qui sotto quando si parla di "questa licenza" (NdT).

- I) Non ci sono restrizioni alla distribuzione di copie non modificate di Vim, alla condizione che esse includano il testo di questa licenza. Si possono anche distribuire parti non modificate di Vim, sempre senza restrizioni, alla condizione che esse includano il testo di questa licenza. anche consentito includere programmi eseguibili da voi preparati a partire dai

file sorgenti Vim non modificati, pi i vostri esempi di utilizzo e i vostri script Vim.

II) consentito distribuire una versione modificata (o estesa) di Vim, contenente programmi eseguibile e/o codice sorgente, quando siano rispettare le seguenti quattro condizioni:

1) Il testo di questa licenza deve essere incluso senza modifiche.

2) La versione modificata di Vim

dev'essere distribuita in una della

seguenti cinque maniere:

a) Se voi personalmente modificate a Vim, dovete descrivere chiaramente nella distribuzione come possibile mettersi in contatto con voi. Quando il manutentore vi chiede (in qualsiasi forma) una copia della versione modificata di Vim da voi distribuita, dovete rendere disponibili le vostre modifiche, compreso il codice sorgente, al manutentore, senza alcuna spesa. Il manutentore si riserva il diritto di includere le vostre modifiche nella versione ufficiale di Vim. Quel che il manutentore potr fare con le vostre modifiche e sotto quale licenza esse verranno distribuite pu essere oggetto di negoziazione. Se non c' stata alcuna negoziazione, questa licenza, o una versione successiva della stessa anche applicabile alle vostre modifiche.

I manutentori correnti sono elencati qui:

<https://github.com/orgs/vim/people>.

Se dovessero cambiare, ne sar dato annuncio nei luoghi appropriati (verosimilmente vim.sf.net, www.vim.org e/o comp.editors). Quando sia completamente impossibile contattare il manutentore, l'obbligo di spedirgli le vostre modifiche viene meno. Una volta che il manutentore abbia confermato di aver ricevuto le vostre modifiche, non sar necessario spedirle ulteriormente.

b) Se avete ricevuto un Vim modificato che era stato distribuito come descritto al punto a) potete ulteriormente distribuirlo senza modificarlo, come menzionato al punto I). Se fate ulteriori modifiche, il testo al punto a) si applica a queste modifiche.

c) Includete tutte le modifiche, compreso il codice sorgente, con ogni copia del Vim modificato da voi distribuito. Questo pu essere fatto sotto forma dell'output di un comando "diff", che contenga anche

il contesto [ossia anche le linee non modificate di sorgente

che vengono prima o dopo le modifiche - NdT]. Potete scegliere quale licenza volete utilizzare per il nuovo codice sorgente che voi aggiungere. Le modifiche e la relativa licenza non devono impedire a terze parti di apportare le loro proprie modifiche a Vim.

d) Quando avete un Vim modificato che comprende modifiche quali quelle menzionate al punto c), potete distribuirlo senza il codice sorgente che descrive le modifiche, se le seguenti tre condizioni sono soddisfatte:

- La licenza applicabile alle modifiche vi consente di distribuire

- le modifiche al manutentore Vim senza alcun costo o restrizione, e permette al manutentore Vim di includere le modifiche nella versione ufficiale di Vim senza alcun costo o restrizione.
- Le modifiche da voi fatte sono conservate per almeno tre anni,

dopo che avrete distribuito per l'ultima volta il Vim modificato corrispondente alle modifiche stesse. Quando il manutentore o qualcuno a cui voi avete distribuito il Vim modificato vi chiede (in qualsiasi forma) le modifiche, entro il periodo qui indicato, dovete fargliele avere.

- Dovete descrivere chiaramente nella distribuzione come possibile mettersi in contatto con voi. Questa informazione di contatto deve rimanere valida per almeno tre anni dopo l'ultima data di distribuzione della corrispondente modifica di Vim, oppure il più a lungo possibile.

e) Quando al GNU General Public License (GPL) si applica alle modifiche, potete distribuire il Vim modificato sotto la versione 2 della licenza GNU GPL versione 2 o una qualsiasi versione successiva della stessa licenza.

3) Un messaggio deve essere aggiunto, almeno all'output del comando `":version"` e nella schermata introduttiva, in modo che l'utilizzatore del Vim modificato sia in grado di comprendere cosa è stato modificato. Quando si distribuisca come menzionato al punto 2)e) l'aggiunta del messaggio richiesta solo se ci non conduca a conflitti con la licenza usata per le modifiche.

4) L'informazione di contatto, richiesta ai punti 2)a) e 2)d) non deve essere rimossa o modificata, tranne che per il fatto che la persona stessa può apportare delle correzioni.

III) Se distribuite una versione modificata di Vim, siete incoraggiati a utilizzare la licenza Vim per le vostre modifiche, e a mettere le modifiche a disposizione del manutentore, compreso il codice sorgente.

Il modo preferito in cui fare questo è tramite e-mail o caricando i file su un server ed inviandone l'indirizzo (URL) tramite e-mail.

Se il numero di modifiche è piccolo (per esempio, una modifica a un Makefile) inviare tramite

email l'output del comando `diff` con contesto

può essere sufficiente. L'indirizzo e-mail da utilizzare

`<maintainer@vim.org>`

IV) Non è consentito rimuovere questa licenza dalla distribuzione dei codici sorgente Vim, anche in parte, o da una versione di Vim modificata.

Potete usare questa licenza per precedenti versioni di Vim, invece della licenza con cui esse sono state distribuite, a vostra scelta.

LICENZA DO VIM

I) Não há restrições para distribuir cópias não modificadas do Vim, exceto que elas devem incluir este texto de licença. Você também pode distribuir

partes no modificadas do Vim, igualmente irrestritas, exceto que elas devem incluir este texto de licena. Voc tambm tem permissso para incluir executveis que voc fez a partir das fontes no modificadas do Vim, alm de seus prprios exemplos de uso e scripts do Vim.

II) permitido distribuir uma verso modificada (ou estendida) do Vim, incluindo executveis e/ou cdigo-fonte, quando as quatro condies a seguir forem atendidas:

- 1) Este texto de licena deve ser includo sem modificaes.
- 2) O Vim modificado deve ser distribudo de uma das cinco formas a seguir:

- a) Se voc fizer alteraes no Vim, dever descrever claramente na distribuio como entrar em contato com voc. Quando o mantenedor solicitar a voc (de qualquer forma) uma cpia do Vim modificado que voc distribuiu, voc dever disponibilizar

suas alteraes,

incluindo o cdigo-fonte, ao mantenedor sem taxa. O mantenedor reserva o direito de incluir suas alteraes na verso oficial do Vim. O que o mantenedor far com suas alteraes e sob qual licena elas sero distribudas negociavel. Se no houve negociao ento esta licena, ou uma verso posterior, tambm se aplica s suas alteraes. Os mantenedores atuais esto listados aqui: <https://github.com/orgs/vim/people>. Se isso mudar, ser anunciado em lugares apropriados (provavelmente vim.sf.net, www.vim.org e/ou comp.editors). Quando for completamente impossvel contatar o mantenedor, a obrigao de enviar a ele suas alteraes cessa. Uma vez que o mantenedor tenha confirmado que ele recebeu suas alteraes, elas no precisaro ser enviadas novamente.

- b) Se voc recebeu um Vim modificado que foi distribudo como mencionado em a), voc tem permissso para distribu-lo

sem

modificaes, como mencionado em I). Se voc fizer alteraes adicionais, o texto em a) se aplica a essas alteraes.

- c) Fornea todas as alteraes, incluindo o cdigo-fonte, com cada cpia do Vim modificado que voc distribuir. Isso pode ser feito na forma de um diff de contexto. Voc pode escolher qual licena usar para o novo cdigo que voc adicionar. As alteraes e sua licena no devem restringir outros de fazer suas prprias alteraes na verso oficial do Vim.

- d) Quando voc tem um Vim modificado que inclui alteraes conforme mencionado em c), voc pode distribu-lo sem o cdigo-fonte para as alteraes se as trs condies a seguir forem atendidas:

- A licena que se aplica s alteraes permite que voc distribua as alteraes para o mantenedor do Vim sem taxa ou restrio, e permite que o mantenedor do Vim inclua as alteraes na verso oficial do Vim sem taxa ou

restrio.

- Voc mantm as alteraes por pelo menos trs anos aps a ltima distribuio do Vim modificado correspondente. Quando o mantenedor

ou algum para quem voc distribuiu o Vim modificado solicitar a voc (de qualquer forma) as alteraes dentro deste perodo, voc deve disponibiliz-las a ele.

- Voc descreve claramente na distribuio como entrar em contato com voc. Estas informaes de contato devem permanecer vlidas por pelo menos trs anos aps a ltima distribuio do Vim modificado correspondente, ou pelo maior tempo possvel.

e) Quando a Licena Pblica Geral GNU (GPL) se aplica s alteraes, voc pode distribuir o Vim modificado sob a GNU GPL verso 2 ou qualquer verso posterior.

3) Uma mensagem deve ser adicionada, no mnimo na sada do comando ":version" e na tela de introduo, de modo que o usurio do Vim modificado seja capaz de ver que ele foi modificado.

Ao distribuir

conforme mencionado em 2)e), s necessrio adicionar a mensagem na medida em que isso no entre em conflito com a licena usada para as alteraes.

4) As informaes de contato conforme exigido em 2)a) e 2)d) no devem ser removidas ou alteradas, exceto que a prpria pessoa pode fazer correes.

III) Se voc distribuir uma verso modificada do Vim, encorajamos que use a licena do Vim para suas alteraes e disponibiliz-las ao mantenedor, incluindo o cdigo-fonte. A maneira preferida de fazer isso por e-mail ou enviando os arquivos para um servidor e enviando a URL por e-mail. Se o nmero de alteraes for pequeno (por exemplo, um Makefile modificado), enviar um diff de contexto por e-mail ser suficiente. O endereo de e-mail a ser usado <maintainer@vim.org>

IV) No permitido remover esta licena da distribuio das fontes do Vim, partes dela ou de uma verso modificada. Voc pode usar esta licena para verses anteriores do Vim em vez da licena com a qual elas vieram, a seu critrio.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

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Preamble

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vi: set ft=:

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same

year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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1.156 syslog-ng 4.10.2

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Upstream-Name: syslog-ng

Upstream-Contact: Syslog-ng users' and developers' mailing list <syslog-ng@lists.balabit.hu>

Source: [git://github.com/syslog-ng/syslog-ng.git](https://github.com/syslog-ng/syslog-ng.git)

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*/

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#define SYSLOG_NG_LICENSE_H_INCLUDED
1
```

```
#include "commands.h"
```

```
extern GOptionEntry license_options[];
gint slng_license(int argc, char *argv[], const gchar *mode, GOptionContext *ctx);
```

```
#endif
```

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```
#####  
# generated files are ignored                                #  
#####  
                                ignore  
  
\.ctags  
\.mailmap  
scl/syslogconf/convert-syslogconf.awk$  
.*/*.*.am$  
.*\.(q|yml|md|y|l|txt|xml|xsd|log|key|crt|files|in|conf|.example|gradle|mk|supp|sub|guess|list|pc|.cmake)$  
\..*rc$  
.*[/^]+-grammar\[ch]$  
(.*)?(README|\.gitignore|pylintrc)$  
lib/ivykis  
lib/eventlog  
modules/java/org_syslog_ng_[^/_-]+\h$  
modules/(afmongodb|afamqp)/dummy\.c$  
modules/kafka/tests/sample\.properties  
modules/grpc/protos/opentelemetry-proto  
modules/grpc/protos/grafana-loki  
modules/grpc/protos/googleapis-proto  
modules/grpc/protos/clickhouse-proto  
modules/cloud-auth/jwt-cpp  
dev-utils/plugin_skeleton_creator/plugin_template.*  
(lib|modules)/.*\.conf$  
dist\.conf$  
.*^\.gradle  
scl/syslog-ng\.conf$  
docker/syslog-ng\.conf$  
tests/copyright/policy$  
(syslog-ng-)?config\.h$  
lib/cfg-lex\[ch]$  
tgz2build  
autom4te\.cache  
m4  
Mk  
.*\.(a|bin|class|css|dirstamp|html|idx|jar|js|o|la|lai|lo|MF|persist|Plo|Po|pc|pyc|so|so\.\0\.\0|soT|spec|trs)$  
(.*)?Makefile$  
doc/man
```

```

(_configs\sed\project\cproject\config\status)$
stamp-h1$
tests/functional/test\conf$
scripts/update-patterndb$
(contrib|debian)
packaging/debian
packaging/debian/(man|source)
packaging/rhel
packaging/package-indexer/(Dockerfile|example-cfg\.yaml|pyproject\.toml)$
packaging/package-indexer/indexer/apt_conf/*\.conf$
doc/ChangeLog\.[0-9]$
(\.gitmodules|AUTHORS|COPYING|INSTALL|VERSION|aclocal\.m4|compile|configure|depcomp|install-
sh|libtool|ltmain\.sh|missing|test-driver|ylwrap)$
.*[/\^\.]*$
GPATH|GTAGS|GRTAGS|GSYMS
dbld/build/*$
dbld/release/*$
dbld/install/*$
dbld/images/*$
dbld/(functions\.sh|(build|packages|pip_packages)\.manifest|tarball-changes\.ignore)$
dbld\.dockerignore$
cmake/*$
tests/light/pytest.ini
tests/light/tox.ini
tests/light/pre-commit-config.yaml
.github/workflows/*$
lib/logmsg/tests/messages/syslog-ng-(pe-)?[0-9]*-msg.h$
modules/python-modules/requirements\.lock
scl/darwinosl/darwinosl-metadata-db.csv
lib/multi-line/smart-multi-line\.fsm$
.editorconfig

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                                LGPLv2.1+_SSL,non-balabit

cmake/Modules/FindLIBBPF\.cmake
lib/timeutils/zonecache.[ch]$
modules/secure-logging
modules/secure-logging/tests
modules/secure-logging/slogencrypt
modules/secure-logging/slogverify
modules/secure-logging/slogkey
lib/compat/cpp-(start|end)\.h$
lib/compat/curl\.h$

```

lib/compat/getline.\c\$
lib/compat/json.\h\$
lib/filter/filter-blank\.[ch]\$
lib/filter/tests/test_filter_blank\c\$
lib/healthcheck
lib/healthcheck/tests
lib/file-monitor\.[ch]
lib/cfg-source\.[ch]
lib/metrics-pipe\.[ch]
lib/metrics/label-template\.(c|h)\$
lib/metrics/dyn-metrics-template\.(c|h)\$
lib/metrics/dyn-metrics-store\.(c|h)\$
lib/metrics/dyn-metrics-cache\.(c|h)\$
lib/metrics/metrics\.(c|h)\$
lib/rewrite/rewrite-set-facility\h
lib/rewrite/rewrite-set-matches\.[ch]
lib/rewrite/rewrite-unset-matches\.[ch]
lib/rewrite/tests/test_set_matches\c
lib/rewrite/tests/test_set_facility\c
lib/rewrite/tests/test_set_tag\c
lib/rewrite/rewrite-set-pri\h
lib/rewrite/rewrite-set-pri\c
lib/stats/stats-cluster-key-builder\.[ch]
lib/stats/stats-prometheus\c
lib/stats/stats-prometheus\h
lib/stats/stats-compatible\h
lib/stats/tests/test_stats_prometheus\c
lib/stats/tests/test_stats_cluster_key_builder\c
lib/timeutils/timeutils\h
lib/stackdump\.[ch]
lib/logscheduler\.[ch]
lib/logscheduler-pipe\.[ch]
lib/logmsg/tests/dump_logmsg\c
lib/multi-line/smart-multi-line\.[ch]
lib/multi-line/tests/test_smart_multi_line\c
libtest/mock-logpipe\.[ch]
lib/generic-number\.[ch]
lib/tests/test_generic_number\c
lib/severity-aliases\table
lib/transport/transport-adapter\.[ch]
lib/transport/transport-globals\.[ch]
syslog-ng-ctl/commands/log-level.[ch]
syslog-ng-ctl/commands/attach.[ch]
modules/afsocket/afsocket-signals.h
syslog-ng-ctl/commands/healthcheck.[ch]
modules/python-modules/syslogng/configgen.py
modules/python-modules/syslogng/dest.py
modules/python-modules/syslogng/logger.py

```

modules/python-modules/syslogng/message\py
modules/python-modules/syslogng/parser\py
modules/python-modules/syslogng/reloc\py
modules/python-modules/syslogng/template\py
modules/python/python-confgen\.[ch]
lib/tests/test_logscheduler\c
lib/logproto/logproto-auto-server\.[ch]
lib/transport/transport-factory-haproxy\.[ch]
lib/transport/tests/test_transport\c

```

```

#####
#

```

```

    These tests are GPLd even though they reside under lib/ and are excluded
# from the LGPL declaration of lib/ below.

```

```

#####

```

GPLv2+_SSL

```

lib/tests/test_clone_logmsg\c
lib/tests/test_dnscache\c
lib/tests/test_findcrlf\c
lib/tests/test_hostid\c
lib/tests/test_logwriter\c
lib/tests/test_matcher\c
lib/tests/test_msgparse\c
lib/tests/test_ringbuffer\c
lib/tests/test_serialize\c
lib/tests/test_thread_wakeup\c
lib/tests/test_zone\c

```

```

#####

```

```

# These files are LGPLd, they are intended to be reusable.

```

```

#####

```

LGPLv2.1+_SSL

```

autogen\sh$
sub-configure\sh$
configure\ac$
Makefile\am$
lib/(compat|str-repr|timeutils|control|debugger|filter|logproto|multi-
line|parser|rewrite|stats|template|tests|transport|logmsg|value-pairs|secret-storage|logthrdest|logthrsourc|ack-
tracker|signal-slot-connector|[/]*$)
lib/scanner/(csv-scanner|list-scanner|kv-scanner|xml-scanner|[/]*$)
libtest
syslog-ng(-ctl)?
modules/java-modules/common
modules/java/(native|proxies|src)
modules/native
modules/http/http-signals.h
modules/http/compression\.[ch]
tests/loggen

```

```

persist-tool
modules/python-modules/syslogng/___init___\py
modules/python-modules/syslogng/persist\py
modules/python-modules/syslogng/source\py
modules/python/python-startup.(c|h)$
modules/python/python-global.(c|h)$

#####
#
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#####
GPLv2+_SSL,non-balabit
modules/diskq/tests/test_diskq_counters\c
modules/http/http-plugin\.[ch]
modules/http/http-parser.h
modules/timestamp/rewrite-.*$
modules/timestamp/tf-format-date.*$
modules/timestamp/tests/test_format_date.*$
modules/add-contextual-data/add-contextual-data-glob-selector\.[ch]$
modules/add-contextual-data/tests/test_glob_selector\c$
modules/affile/tests/test_file_writer\c$
modules/affile/stdout\.[ch]
modules/afsocket/socket-options-unix\.[ch]$
modules/basicfuncs/vp-funcs\.[ch]$
modules/basicfuncs/tf-tag\c$
modules/diskq/diskq-global-metrics\.[ch]$
modules/diskq/tests/test_logqueue_disk\c$
modules/metrics-probe/metrics-probe(|-parser|-plugin|-grammar)\.(c|h|ym)$
modules/metrics-probe/tests/test_metrics_probe\c$
modules/darwinosl/darwinosl(|-parser|-plugin|-grammar|-source|-source-oslog|-source-persist)\.(c|h|m|ym)$
modules/grpc/otel/otel-(grammar|parser|plugin|source|source-services|servicecall|protobuf-parser|protobuf-
formatter|dest|dest-worker|logmsg-handles)\.(c|h|cpp|hpp|ym)$
modules/grpc/otel/grpc-credentials-builder\.(h|cpp|hpp)$
modules/grpc/otel/syslog-ng-otlp-(dest|dest-worker)\.(h|cpp|hpp)$
modules/grpc/otel/tests/test-otel-(protobuf-parser|protobuf-formatter)\.cpp$
modules/grpc/otel/tests/test-syslog-ng-otlp\.cpp$
modules/grpc/loki
modules/grpc/bigquery
modules/grpc/pubsub
modules/grpc/clickhouse
modules/grpc/common
modules/grpc/protos/apphook\.(cpp|h)$
modules/cloud-auth/cloud-auth(|-grammar|-parser|-plugin)\.(c|h|cpp|hpp|ym)$
modules/cloud-auth/google-auth\.(h|cpp|hpp)$
modules/cloud-auth/azure-auth\.(h|cpp|hpp)$
modules/examples/inner-destinations/tls-test-validation
modules/examples/sources/random-choice-generator
modules/python/python-options.(c|h)$

```


modules/python/python-reloc\.(c|h)\$
modules/python/python-binding.(c|h)\$
modules/python/python-flags.(c|h)\$
modules/python/tests/test_python_options.c\$
modules/python/tests/test_python_reloc.c\$
scl/fortigate/*.conf\$
scl/cee/*.conf\$
scl/elasticsearch/elastic-datastream.conf\$
scl/logscale/logscale.conf\$
scl/mariadb/*.conf\$
scl/python/python-modules.conf\$
scl/darwinosl/plugin.conf\$
scl/splunk/splunk.conf\$
scl/google/google-pubsub.conf\$
scl/azure/azure-monitor.conf\$
scl/openobserve/*.conf\$
scl/pgsql/pgsql.conf\$
scl/qbittorrent/qbittorrent.conf\$
scl/pihole/pihole.conf\$
scl/jellyfin/jellyfin.conf\$
scl/arr/arr.conf\$
modules/python-modules/syslogng/modules/kubernetes/*
modules/ebpf/*
modules/python-modules/syslogng/modules/hypr/*
modules/python-modules/syslogng/modules/example/*
modules/python-modules/syslogng/modules/s3/*
modules/python-modules/syslogng/modules/webhook/scl/*
modules/python-modules/syslogng/modules/webhook/__init__.py
modules/python-modules/setup.py
scripts/build-python-venv.sh
modules/syslogformat/sdata-parser.[ch]
tests/light/functional_tests/config_change/test_python_custom_options.py
tests/light/functional_tests/logpath/__init__.py
tests/light/functional_tests/logpath/test_named_logpaths.py
tests/light/functional_tests/logpath/test_named_logpaths_with_catchall_flag.py
tests/light/functional_tests/logpath/test_named_logpaths_with_fallback_flag.py
tests/light/functional_tests/logpath/test_named_logpaths_with_final_flag.py
tests/light/functional_tests/parsers/sdata-parser/test_sdata_parser.py
tests/light/functional_tests/parsers/group-lines-parser/test_group_lines_parser.py
tests/light/functional_tests/parsers/postgresql-csvlog-parser/test_postgresql_csvlog_parser.py
tests/light/functional_tests/logpath/test_conditionals.py
tests/light/functional_tests/logpath/test_midpoint_destinations.py
tests/light/functional_tests/value-pairs/test_value_pairs.py
tests/light/functional_tests/templates/test_template_stmt.py
tests/light/functional_tests/filters/test_multiple_filters.py
tests/light/functional_tests/parsers/metrics-probe/test_metrics_probe.py
tests/light/functional_tests/source_drivers/syslog_source/auto/test_auto_proto.py
tests/light/src/syslog_ng_ctl/prometheus_stats_handler.py

```

tests/light/src/syslog_ng_config/statements/template/template\py
tests/light/src/syslog_ng_config/statements/__init__\py
tests/light/src/syslog_ng/syslog_ng_docker_executor.py
modules/correlation/id-counter\.[ch]$
modules/correlation/group-lines.h
modules/xml/windows-eventlog-xml-parser\h
modules/xml/tests/test_windows_eventlog_xml_parser\c
modules/affile/logrotate\.[ch]
tests/light/functional_tests/destination_drivers/file_destination/test_logrotate_all_messages_received\py
tests/light/functional_tests/destination_drivers/file_destination/test_logrotate_deleting_log_file\py
tests/light/functional_tests/destination_drivers/file_destination/test_logrotate_rotation_failure\py

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#
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#####
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news/create-newsfile.py
news/next-pr-id.py
dev-utils/plugin_skeleton_creator/create_plugin.sh
tests/functional
tests/unit
tests/valgrind
tests/build-log-cflags-propagation.sh
tests/collect-cov.sh
tests/commits/check.sh
tests/copyright/check.sh
tests/light
modules/java/(tools[/^]*$)
modules/java-modules/(dummy|hdfs[/^]*$)
modules/(afamqp|affile|afmongodb|afprog|afsmtp|afsocket|afsql|afstomp|afstreams|afuser|azure-auth-
header|basicfuncs|cef|confgen|cryptofuncs|csvparser|timestamp|diskq|correlation|geoip2|graphite|json|kvformat|linux
-kmsg-format|pacctformat|pseudofile|python|python-modules|redis|riemann|syslogformat|systemd-
journal|getent|system-source|stardate|snmptrapd-parser|xml|openbsd|examples|kafka|afsnmp|mqttr|regexp-parser|rate-
limit-filter[/^]*$)
modules/(add-contextual-data|tagsparser|map-value-pairs|hook-commands|appmodel[/^]*$)
modules/cryptofuncs/cryptofuncs\c$
modules/cryptofuncs/tests/test_cryptofuncs\c$
modules/http/(http-loadbalancer|http-worker)\.[ch]$
modules/http/response-handler\.[ch]$
modules/http/http-curl-header-list\.[ch]$
modules/http/autodetect-ca-location\.[ch]$
packaging/package-indexer/*.py$
scl
scripts
modules/http/tests
modules/http/http\.[ch]

```

modules/http/http-parser.c
modules/http/http-grammar.ym
modules/correlation/group-lines.c
modules/python-modules/syslogng/modules/webhook/source.py
docker/Dockerfile
docker/entrypoint.sh

Doxyfile

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1.157 jwcrypto 1.5.6

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1.158 constantly 23.10.4

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1.159 cheroot 10.0.1

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1.160 jaraco-functools 4.1.0

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1.161 httplib 0.22.0

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1.162 statsd 4.0.1

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1.163 dns-python 2.7.0

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1.164 bidict 0.23.1

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1.167 pyasn1-modules 0.4.1

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1.168 python-certifi 2025.1.31

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1.172 pyparsing 3.2.1

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1.175 click 8.1.8

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1.176 zope-event 5.0

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1.177 pyopenssl 21.0.0

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1.178 mox3 1.1.0

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1.179 urllib3 1.26.20

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1.180 zope-interface 7.2

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1.181 six 1.17.0

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1.182 pbr 6.1.1

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1.183 web.py 0.62

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"License :: Public Domain",

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from <<http://lfw.org/python/Itpl.py>> (public domain, Ka-Ping Yee)

Loosely based on <<http://lfw.org/python/Itpl.py>> (public domain, Ka-Ping Yee)

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Metadata-Version: 2.1

Name: web.py

Version: 0.62

Summary: web.py: makes web apps

Home-page: <http://webpy.org/>

Author: Aaron Swartz

Author-email: me@aaronsw.com

Maintainer: Anand Chitipothu

Maintainer-email: anandology@gmail.com

License: Public domain

Description: web.py is a web framework for Python that is as simple as it is powerful.

Visit <http://webpy.org/> for more information.

[![build status](<https://secure.travis-ci.org/webpy/webpy.png?branch=master>)](<https://travis-ci.org/webpy/webpy>)

ci.org/webpy/webpy)

[[Codecov Test Coverage](https://codecov.io/gh/webpy/webpy/branch/master/graphs/badge.svg?style=flat)](https://codecov.io/gh/webpy/webpy)

The latest stable release `0.62` only supports Python ≥ 3.5 .

To install it, please run:

```

# For Python 3

python3 -m pip install web.py==0.62

```

If you are still using Python

2.7, then please use web.py version 0.51

which is intended to be our last release that supports Python 2.

```

# For Python 2.7

python2 -m pip install web.py==0.51

```

You can also download it from [GitHub Releases](https://github.com/webpy/webpy/releases) page, then install it manually:

```

unzip webpy-0.62.zip

cd webpy-0.62/

python3 setup.py install

```

Note: `0.5x` (e.g. 0.50, 0.51) are our last releases which support Python 2.

Note: `0.6x` (e.g. 0.60, 0.61, 0.62) are our last releases which support Python 3.5.

Platform: any

Classifier: License :: Public Domain

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Programming Language :: Python :: 3.8

Classifier:

Programming Language :: Python :: 3.9

Requires-Python: ≥ 3.5

Description-Content-Type: text/markdown

Found in path(s):

* /web-py-0-62-tar-gz/web.py-0.62/PKG-INFO

* /web-py-0-62-tar-gz/web.py-0.62/web.py.egg-info/PKG-INFO

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1.184 configobj 5.0.9

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1.185 automat 24.8.1

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3 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
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1.191 service-identity 24.2.0

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:start-after: "## Credits"
:end-before: "### *service-identity* for Enterprise"
``
```

1.192 coverage 7.8.0

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1.193 pycparser 2.22

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1.194 python-ldap 3.4.4

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1.195 python-setuptools 80.9.0

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

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

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

All

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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2.0	1.6	2000	BeOpen.com	no
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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
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1.198 cffi 1.17.1

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ASN.1 library for Python

-----  
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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range

of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin\_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

**\*\*NOTE:\*\***

The package is now maintained by \*Christian Heimes\* and  
\*Simon Pichugin\* in project <https://github.com/pyasn1/pyasn1>.

## Features

-----

- \* Generic implementation of ASN.1 types (X.208)
- \* Standards compliant BER/CER/DER codecs
- \* Can operate on streams of serialized data
- \* Dumps/loads ASN.1 structures from Python types
- \* 100% Python, works with Python 3.8+
- \* MT-safe
- \* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

## Why using pyasn1

-----

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology.

Including a number of  
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.  
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)  
by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

## How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures.

For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
  id      INTEGER,
  room    [0] INTEGER OPTIONAL,
  house   [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
```
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```
```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000:
 30 07 02 01 7B 80 02 01 41
```

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>   print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321,
 'house': 0}
```

```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```

```python
>>> from pyasn1.codec.native.decoder import decode

```

```
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
...

```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<https://pyasn1.readthedocs.io/en/latest/pyasn1/contents.html>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/pyasn1/pyasn1-modules>).

How to get pyasn1

-----

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<https://pyasn1.readthedocs.io/en/latest/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/pyasn1/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.org/project/pyasn1>).

If something does not work as expected, [open an issue](<https://github.com/epytasn1/pyasn1/issues>) at GitHub or post your question [on Stack Overflow](<https://stackoverflow.com/questions/ask>) or try browsing pyasn1 [mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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Found in path(s):

- \* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/README.md

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

# License: <https://pyasn1.readthedocs.io/en/latest/license.html>

Found in path(s):

- \* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/\_\_main\_\_.py

- \* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/der/encoder.py



```

* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/native/decoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/streaming.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/native/encoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/ber/encoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/ber/decoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/cer/encoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/char.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/base.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_opentype.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_constraint.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/debug.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/native/__main__.py
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* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/ber/test_encoder.py
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* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/der/test_decoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/ber/test_decoder.py
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* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/cer/test_decoder.py
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* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/compat/integer.py
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* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/error.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/opentype.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/base.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/cer/test_encoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/der/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/der/test_encoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_char.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/cer/__main__.py
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*
/pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/namedtype.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_namedtype.py

```

\* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/error.py  
\* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/ber/\_\_main\_\_.py  
\* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/test\_streaming.py  
\* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/\_\_main\_\_.py  
\* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/native/test\_encoder.py  
No license file was found, but licenses were detected in source scan.

.. \_license:

License

=====

.. include:: ../LICENSE.rst

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\* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/docs/source/license.rst  
No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1

Name: pyasn1

Version: 0.6.1

Summary: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)

Home-page: <https://github.com/pyasn1/pyasn1>

Author: Ilya Etingof

Author-email: [etingof@gmail.com](mailto:etingof@gmail.com)

Maintainer: pyasn1 maintenance organization

Maintainer-email: Christian Heimes <[christian@python.org](mailto:christian@python.org)>

License: BSD-2-Clause

Project-URL: Documentation, <https://pyasn1.readthedocs.io>

Project-URL: Source, <https://github.com/pyasn1/pyasn1>

Project-URL: Issues, <https://github.com/pyasn1/pyasn1/issues>

Project-URL: Changelog, <https://pyasn1.readthedocs.io/en/latest/changelog.html>

Platform: any

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: Education

Classifier: Intended Audience :: Information Technology

Classifier: Intended Audience :: System Administrators

Classifier: Intended Audience

:: Telecommunications Industry

Classifier: License :: OSI Approved :: BSD License

Classifier: Natural Language :: English

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.8

Classifier: Programming Language :: Python :: 3.9

Classifier: Programming Language :: Python :: 3.10

Classifier: Programming Language :: Python :: 3.11  
Classifier: Programming Language :: Python :: 3.12  
Classifier: Programming Language :: Python :: 3.13  
Classifier: Programming Language :: Python :: Implementation :: CPython  
Classifier: Programming Language :: Python :: Implementation :: PyPy  
Classifier: Topic :: Communications  
Classifier: Topic :: Software Development :: Libraries :: Python Modules  
Requires-Python: >=3.8  
Description-Content-Type: text/markdown  
License-File: LICENSE.rst

## ASN.1 library for Python

-----  
[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)  
[![Python  
Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/  
[![Build  
status](https://github.com/pyasn1/pyasn1/actions/workflows/main.yml/badge.svg)](https://github.com/pyasn1/pyasn1/actions/workflows/main.yml)  
[![Coverage  
Status](https://img.shields.io/codecov/c/github/pyasn1/pyasn1.svg)](https://codecov.io/github/pyasn1/pyasn1)  
[![GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/pyasn1/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin\_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

**\*\*NOTE:\*\*** The package is now maintained by *\*Christian Heimes\** and *\*Simon Pichugin\** in project <https://github.com/pyasn1/pyasn1>.

## Features

- 
- \*  
Generic implementation of ASN.1 types (X.208)
  - \* Standards compliant BER/CER/DER codecs
  - \* Can operate on streams of serialized data
  - \* Dumps/loads ASN.1 structures from Python types
  - \* 100% Python, works with Python 3.8+
  - \* MT-safe
  - \* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

-----

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.  
[Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>)  
by  
Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
  id      INTEGER,
  room    [0] INTEGER OPTIONAL,
  house   [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        )
    )
```
```

```

    ),
    DefaultedNamedType(
        'house', Integer(0).subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
        )
    )
)
)
...

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
...

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
...

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123

```

```

room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
...

```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room':
321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
...

```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

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-----

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or download it from [PyPI](https://pypi.org/project/pyasn1).

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[open an issue](https://github.com/epyasn1/pyasn1/issues) at GitHub or  
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)  
or try browsing pyasn1  
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Found in path(s):  
\* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/PKG-INFO  
\* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1.egg-info/PKG-INFO  
No license file was found, but licenses were detected in source scan.

The PyASN1 software is distributed under 2-clause BSD License.

Found in path(s):  
\* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/docs/source/contents.rst  
No license file was found, but licenses were detected in source scan.

[metadata]  
name = pyasn1  
version = attr: pyasn1.\_\_version\_\_  
description = Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)  
long\_description = file: README.md  
long\_description\_content\_type = text/markdown  
license = BSD-2-Clause  
license\_files = LICENSE.rst  
url = https://github.com/pyasn1/pyasn1  
author = Ilya Etingof  
author\_email = etingof@gmail.com  
maintainer = pyasn1 maintenance organization  
maintainer\_email = Christian Heimes <christian@python.org>  
project\_urls =  
Documentation=https://pyasn1.readthedocs.io  
Source=https://github.com/pyasn1/pyasn1  
Issues=https://github.com/pyasn1/pyasn1/issues  
Changelog=https://pyasn1.readthedocs.io/en/latest/changelog.html

platforms = any  
classifiers =  
Development Status :: 5 - Production/Stable  
Environment :: Console  
Intended Audience :: Developers  
Intended Audience :: Education  
Intended Audience :: Information Technology  
Intended Audience :: System Administrators  
Intended Audience :: Telecommunications Industry  
License :: OSI Approved :: BSD License  
Natural Language :: English  
Operating System :: OS Independent  
Programming Language :: Python :: 3  
Programming Language :: Python :: 3.8  
Programming Language :: Python :: 3.9  
Programming Language :: Python :: 3.10  
Programming Language :: Python :: 3.11  
Programming Language :: Python :: 3.12  
Programming Language :: Python :: 3.13  
Programming Language :: Python :: Implementation :: CPython  
Programming Language :: Python :: Implementation :: PyPy  
Topic :: Communications  
Topic :: Software Development :: Libraries :: Python Modules

[options]

python\_requires = >=3.8  
zip\_safe = True  
setup\_requires = setuptools  
packages =  
pyasn1  
pyasn1.type  
pyasn1.compat  
pyasn1.codec  
pyasn1.codec.ber  
pyasn1.codec.cer  
pyasn1.codec.der  
pyasn1.codec.native

[egg\_info]

tag\_build =  
tag\_date = 0

Found in path(s):

\* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/setup.cfg



# 1.206 subprocess32 3.5.4

## 1.206.1 Available under license :

### 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 |

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## 1.215 defusedxml 0.7.1

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

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

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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                 |
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| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
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# 1.220 libvmtools 13.0.5.0

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Open-vm-tools v10.3.0

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base64.c -- routines to encode/decode base64 data

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## 1.222 traffic-server 9.2.11

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Mathieu Desnoyers

May 13th, 2009

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

<https://lists.lttng.org/pipermail/lttng-dev/2009-May/012835.html>

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

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

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

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

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

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

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

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.
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```
****
#define _LGPL_SOURCE
#include <urcu.h>
****
```

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```
****
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