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5.42, the complete

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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  
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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.

-----

## 1.5 vlan 1.9

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- 
- \* 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)

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Various unnamed contributors  
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## 1.7 coreutils 9.6

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## 1.8 subprocess32 3.5.4

### 1.8.1 Available under license :

#### A. HISTORY OF THE SOFTWARE

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

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

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

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |

|       |           |           |      |         |
|-------|-----------|-----------|------|---------|
| 1.6.1 | 1.6       | 2001      | CNRI | yes (2) |
| 2.1   | 2.0+1.6.1 | 2001      | PSF  | no      |
| 2.0.1 | 2.0+1.6.1 | 2001      | PSF  | yes     |
| 2.1.1 | 2.1+2.0.1 | 2001      | PSF  | yes     |
| 2.2   | 2.1.1     | 2001      | PSF  | yes     |
| 2.1.2 | 2.1.1     | 2002      | PSF  | yes     |
| 2.1.3 |           |           |      |         |
| 2.1.2 | 2002      | PSF       | yes  |         |
| 2.2.1 | 2.2       | 2002      | PSF  | yes     |
| 2.2.2 | 2.2.1     | 2002      | PSF  | yes     |
| 2.2.3 | 2.2.2     | 2003      | PSF  | yes     |
| 2.3   | 2.2.2     | 2002-2003 | PSF  | yes     |
| 2.3.1 | 2.3       | 2002-2003 | PSF  | yes     |
| 2.3.2 | 2.3.1     | 2002-2003 | PSF  | yes     |
| 2.3.3 | 2.3.2     | 2002-2003 | PSF  | yes     |
| 2.3.4 | 2.3.3     | 2004      | PSF  | yes     |
| 2.3.5 | 2.3.4     | 2005      | PSF  | yes     |
| 2.4   | 2.3       | 2004      | PSF  | yes     |
| 2.4.1 | 2.4       | 2005      | PSF  | yes     |
| 2.4.2 | 2.4.1     | 2005      | PSF  | yes     |
| 2.4.3 | 2.4.2     | 2006      | PSF  | yes     |
| 2.4.4 | 2.4.3     | 2006      | PSF  | yes     |
| 2.5   | 2.4       | 2006      | PSF  | yes     |
| 2.5.1 | 2.5       | 2007      | PSF  | yes     |
| 2.5.2 | 2.5.1     | 2008      | PSF  | yes     |
| 2.5.3 | 2.5.2     | 2008      | PSF  | yes     |
| 2.6   | 2.5       | 2008      | PSF  | yes     |
| 2.6.1 | 2.6       | 2008      | PSF  | yes     |
| 2.6.2 | 2.6.1     | 2009      | PSF  | yes     |
| 2.6.3 | 2.6.2     | 2009      | PSF  | yes     |
| 2.6.4 | 2.6.3     | 2009      | PSF  | yes     |
| 2.6.5 | 2.6.4     | 2010      | PSF  | yes     |
| 3.0   | 2.6       | 2008      | PSF  | yes     |
| 3.0.1 | 3.0       | 2009      | PSF  | yes     |
| 3.1   | 3.0.1     | 2009      | PSF  | yes     |
| 3.1.1 | 3.1       | 2009      | PSF  | yes     |
| 3.1.2 | 3.1       | 2010      | PSF  | yes     |

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## 1.9 opensaml 3.3.1

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## 1.10 cpp 7.5.0

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Any

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The

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Version 3.1, 31 March 2009

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Version 3, 29 June 2007

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

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

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

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

then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of

this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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## 1.13 nss-ldap 265

### 1.13.1 Available under license :

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

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

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

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

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

Note that it is possible for a library to be covered by the ordinary

General Public License rather than by this special one.

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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.)

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In addition,

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

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

Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

to use the modified definitions.)

- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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## 1.14 iana-etc 2.30

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## 1.15 pam-ldap 186

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## 1.17 cryptography 3.3.2

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## 1.30 log4shib 2.0.1

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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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From strings/apr\_strnatcmp.c,  
include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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strings/apr\_snprintf.c:

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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 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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## 1.34 hd-parm 9.65

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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///

[#mpl]  
# MPL Support, <boost/mp11/mpl.hpp>  
:toc:  
:toc-title:  
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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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## 1.38 xmlsecurityforc++ 2.0.4

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

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

Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

# Please also look if there are files or directories which have a  
# different copyright/license attached and list them here.  
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# packaged work, as it may make Debian's contributions unacceptable upstream.

@c \input texinfo.tex @c -\*-texinfo-\*-

@c

@c %\*\*start of header

@c All text is ignored before the setfilename.

@setfilename LGPL.info

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@center Version 2.1, February 1999

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@center Preamble

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

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

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

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

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

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

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

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

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

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licensee is addressed as ``you".

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

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

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

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

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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.

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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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The modified work must itself be a software library.

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

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

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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.)

@end enumerate

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

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

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

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

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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.

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

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

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A 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 to use the modified definitions.)

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

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

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## 1.42 python-pygobject 3.42.1

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## 1.43 python-webpy 0.62

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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](mailto:me@aaronsw.com)

Maintainer: Anand Chitipothu

Maintainer-email: [anandology@gmail.com](mailto:anandology@gmail.com)

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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>)

[[[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  $\geq 3.5$ .

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

Adopted from <http://www.zafar.se/bkz/uploads/safe.txt> (public domain, Babar K. Zafar)

Found in path(s):  
\* /web-py-0-62-tar-gz/web.py-0.62/web/template.py

# 1.44 python-mox3 1.1.0

## 1.44.1 Available under license :

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## 1.45 gobject-introspection 1.60.0

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## 1.46 libns! 2.0.1

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## 1.49 autocommand 2.2.2

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## 1.50 configargparse 1.7

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

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

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## 1.59 sshpass 1.10

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

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

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| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---------|--------------|------|-------|---------------------|
| 2.5     | 2.4          | 2006 | PSF   | yes                 |
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| 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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## 1.64 pystatsd 4.0.1

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## 1.66 python-dbus 1.3.2

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Todd C. Miller modified the MD5 code to do MD4 based on RFC 1186.

Files:

include/md5.h

src/md5.c

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Files:

include/sha1.h

src/sha1.c

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# 1.77 syslog-ng 4.7.1

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Section: pkg.m4 - Macros to locate and utilise pkg-config.

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File: install-sh (only for ICU4C)

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```
/* Extract the last component (base name) of a file name.
```

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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 */

```

## 1.93 ciscossh 1.13.48.11

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\*

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\*

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Portions of code from MODP\_ASCII - Ascii transformations (upper/lower, etc)  
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- and PCI-bus devices
4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
  5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
  6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
  7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
  8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
  9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
  10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
  11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
  12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
  13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
  14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
  15. [16]Philippe De Muyter <phdm@macqel.be> Wharton reference clock driver, sysV68 and AIX modifications.
  16. [17]Sven Dietrich <sven\_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
  17. [18]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
  18. [19]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
  19. [20]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
  20. [21]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
  21. [22]Dave Hart <davehart@gmail.com> General maintenance, IPv6 cleanup, Windows PPSAPI
  22. [23]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
  23. [24]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
  24. [25]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
  25. [26]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
  26. [27]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
  27. [28]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [29]<H.Lambermont@chello.nl> ntpswEEP
  28. [30]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
  29. [31]Frank Kardel [32]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
  30. [33]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
  31. [34]William L. Jones <jones@hermes.chpc.utexas.edu>

RS/6000 AIX

modifications, HP-UX modifications

- 32. [35]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
- 33. [36]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
- 34. [37]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
- 35. [38]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
- 36. [39]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
- 37. [40]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
- 38. [41]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
- 39. [42]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
- 40. [43]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
- 41. [44]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
- 42. [45]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
- 43. [46]Derek Mulcahy <derek@toybox.demon.co.uk> and [47]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
- 44. [48]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
- 45. [49]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
- 46. [50]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
- 47. [51]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
- 48. [52]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
- 49. [53]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
- 50. [54]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
- 51. [55]Michael Shields <shields@tembel.org> USNO clock driver
- 52. [56]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
- 53. [57]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
- 54. [58]Kenneth Stone <ken@sdd.hp.com> HP-UX port
- 55. [59]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
- 56. [60]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
- 57. [61]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
- 58. [62]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
- 59. [63]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
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## References

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# 1.98 smem 1.6

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## 1.101 kerberos 1.21.3

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lib/gss\_mechs/mech\_krb5/et/kdb5\_err.c  
lib/gss\_mechs/mech\_spnego/mech\_gssapiP\_spnego.h  
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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  
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lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
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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/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
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- 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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## 1.106 e2fsprogs 1.47.1

### 1.106.1 Available under license :

Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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```
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```
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```

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Theodore Ts'o  
23-June-2007

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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>.

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Files: lib/et/\*

lib/ss/\*

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Board

2003 Theodore Ts'o

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Files: lib/et/com\_right.c

Comment: Taken from lib/com\_err/error.c from Kerberos4kth distribution.

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misc/e2fuzz.c

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1992-1994 Remy Card <card@masi.ibp.fr>

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2001 Daniel Phillips

2002 Theodore Ts'o.

2002 Andreas Dilger

2006 Cluster File Systems, Inc.

2006, 2007 by Andreas Dilger <adilger@clusterfs.com>

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debugfs/journal.\*  
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debugfs/xattrs.c  
lib/support/plausible.c  
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## 1.107 pyasn1-modules 0.4.1

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## 1.108 idna 3.10

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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;
```

## 1.110 configobj 5.0.9

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## 1.111 jaraco-functools 4.1.0

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# 1.112 jaraco.collections 5.1.0

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# 1.113 bash 5.2.37

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## 1.116 markupsafe 3.0.2

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```{include} ../README.md

:parser: myst\_parser.sphinx\_

:start-after: "## Credits"  
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# 1.118 packaging 24.2

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# 1.119 pyasn1 0.6.1

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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/epyasn1/pyasn1/issues) at GitHub or  
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)  
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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/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
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/compat/__main__.py
*
/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

```

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.. \_license:

License

=====

.. include:: ../../LICENSE.rst

Found in path(s):

```

* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/docs/source/license.rst

```

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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)  
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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.

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/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

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\* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/docs/source/contents.rst

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[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

## 1.120 pycparser 2.22

### 1.120.1 Available under license :

pycparser -- A C parser in Python

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## 1.121 pyrfc3339 2.0.1

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## 1.122 ethtool 6.11

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```
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## 1.123 thrift 0.21.0

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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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#
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```

-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

```
/*
  json_parse.js
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

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

```
/* socketpair.c
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   be retained, unchanged, in its entirety. If
 * for any reason the author might be held responsible for any consequences
 * of copying or use, license is withheld.
*/
```

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

```
// ISO C9x compliant stdint.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

\* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>

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# 1.124 zope-interface 7.2

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# 1.125 open-ldap 2.6.9

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# 1.145 zope-component 6.0

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## 1.146 suds-py3 1.4.5.0

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## 1.147 parsedatetime 2.6

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## 1.149 pytz 2025.1

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| 2 | 7680  | 16383 | 8704 | 4.3M    |      | 8f8378c0-02 |      |
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```

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

```
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```

```
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```

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## 1.154 attrs 24.3.0



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It's the spiritual successor of [characteristic](<https://characteristic.readthedocs.io/>) and aspires to fix some of its clunkiness and unfortunate decisions.

Both were inspired by Twisted's

[FancyEqMixin](<https://docs.twisted.org/en/stable/api/twisted.python.util.FancyEqMixin.html>)

but both are implemented using class decorators because [subclassing is bad for you](<https://www.youtube.com/watch?v=3MNVP9-hglc>) (except when doing [strict specialization](<https://hynek.me/articles/python-subclassing-redux/>)).

# 1.155 vim 9.1.1101

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That's all there is to it!  
\*uganda.txt\* For Vim version 9.1. Last change: 2024 Aug 14

VIM REFERENCE MANUAL by Bram Moolenaar

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

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also applies to your changes.

The current maintainers are listed here: <https://github.com/orgs/vim/people>.

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as possible.

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=== 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.
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=====

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](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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## 1.157 sysv-init 3.14

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## 1.161 fdisk 2.40.4

### 1.161.1 Available under license :

| NR | START | END   | SECTORS | SIZE | NAME | UUID        |
|----|-------|-------|---------|------|------|-------------|
| 1  | 32    | 7679  | 7648    | 3.7M |      | 8f8378c0-01 |
| 2  | 7680  | 16383 | 8704    | 4.3M |      | 8f8378c0-02 |
| 5  | 7936  | 12799 | 4864    | 2.4M |      |             |
| 6  | 12544 | 16127 | 3584    | 1.8M |      |             |

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section 10

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[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 code as public domain as well.

Dave Hylands

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

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

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

set yrange [0:]

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

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

mruby-set

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# 1.163 libuv 1.50.0

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## 1.171 python-lxml 5.3.2

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

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Linux-syscall-note

# 1.173 xmltooling 3.3.0

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# 1.174 diffutils 3.11

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#####

## Constant-time SSSE3 AES core implementation.

## version 0.1

##

## By Mike Hamburg (Stanford University), 2009

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## 1.179 sysstat 12.7.7

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

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

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

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

```
{signature of Ty Coon}, 1 April 1989  
Ty Coon, President of Vice
```



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## 1.180 gawk 5.3.1

### 1.180.1 Available under license :

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Version 2, June 1991

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

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Because  
of this blurred distinction, using the ordinary General  
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concluded that weaker conditions might promote sharing better.

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"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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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 3, 29 June 2007

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section 10

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```
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#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
#ifdef 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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When a program is linked with a library, whether statically or using

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

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

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

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

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Library refers to a function or a

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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.)

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.

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must be  
distributed under the terms of Sections 1 and 2 above on a  
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy  
from a designated place, then offering equivalent access to copy the  
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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  
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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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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  
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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  
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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  
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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



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

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

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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.

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Version 3, 29 June 2007

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Any

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## 1.184 libcap 2.75

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GSS-API mechlue layer.

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@table @asis

@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM

credential cache.

@item HDB LDAP backend.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

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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DES core in libcrypto

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D3DES (V5.09) -

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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## 1.191 python-setuptools 80.9.0

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```
python -m validate_pyproject.pre_compile --output-dir=setuptools/config/_validate_pyproject --enable-plugins  
setuptools distutils --very-verbose -t setuptools=setuptools/config/setuptools.schema.json -t  
distutils=setuptools/config/distutils.schema.json
```

Please avoid changing it manually.

You can report issues or suggest changes directly to `validate-pyproject` (or to the relevant plugin repository)

- <https://github.com/abravalheri/validate-pyproject/issues>

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The following files include code from opensource projects



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``fastjsonschema``  
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`validate-pyproject`

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

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

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| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
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Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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

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-- vile:txtmode fc=72

-- \$Id: COPYING,v 1.14 2025/01/04 10:53:46 tom Exp \$

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## 1.193 dmidecode 3.6

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# 1.196 linux-firmware 20231211

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-----  
WIS GO7007SB Public Linux Driver  
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\*\*\* Please see the file RELEASE-NOTES for important last-minute updates \*\*\*

#### 0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream is available through the Video4Linux2 API and the audio stream is available

through the ALSA API (or the OSS emulation layer of the ALSA system).

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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 Plextor ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plextor 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`:

|                                                                    |                                                                                                                             |
|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <code>__u32</code><br><code>gop_size</code>                        | The maximum number of frames in each Group Of Pictures; i.e. the maximum number of frames minus one between each key frame. |
| <code>__u32</code><br><code>max_b_frames</code>                    | The maximum number of sequential bidirectionally-predicted frames. (B-frames are not yet supported.)                        |
| <code>enum go7007_aspect_ratio</code><br><code>aspect_ratio</code> | The aspect ratio to be encoded in the 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`

|                                          |                                      |
|------------------------------------------|--------------------------------------|
| <code>__u32</code><br><code>flags</code> | Bit-wise OR of control flags (below) |
|------------------------------------------|--------------------------------------|

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

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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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*
* $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

```

```
=====
```

2.

```
/* utility to create the register check tables
* this includes inlined list.h safe for userspace.
```

```
*
```

```
* Copyright 2009 Jerome Glisse
```

```
* Copyright 2009 Red Hat Inc.
```

```
*
```

```
* Authors:
```

```
*   Jerome
```

```
    Glisse
```

```
*   Dave Airlie
```

```
*/
```

```
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```

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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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\* =====  
\*

\*/

File Name list: aes.h, aes\_locl.h

=====

4.

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

```
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#
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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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wcsncpy.c

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- \* Author: Malcolm Purvis <malcolmp@ok-labs.com>
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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.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: ipv6.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

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 *
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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: sha2.h

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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\_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)
*
* 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: aes_gcm.c

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* Galois/Counter Mode (GCM) and GMAC with AES
*
* Copyright (c) 2012, Jouni Malinen <j@w1.fi>
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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
*
* Copyright (c) 2003-2005, Jouni Malinen <jkmaline@cc.hut.fi>
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```

=====
File: common.h

```

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```

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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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* SHA1 hash implementation and interface functions
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```

```
=====
File: wmi_tlv_helper.c
```

```
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=====  
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/\*-

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=====

File: hca\_HwComponentBbLithium\_dfs\_phyerr\_tlv.cpp

/\*

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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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=====
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File:

dfs\_ioctl.h

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File: dfs\_ioctl\_private.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: sha2.c

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\* This file defines the cryptographic  
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\* 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  
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File:
mywpa_common.c

```

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* WPA/RSN - Shared functions for supplicant and authenticator
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\* WPA definitions shared between hostapd and wpa\_supplicant  
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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  
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//  
//  
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\*  
\* 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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- \*
- \* 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
*

```

```

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/*
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.

```

-----

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*
* 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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\*  
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```
/* WPA/RSN - Shared functions for supplicant and authenticator
 * EAP common peer/server definitions
 * EAP peer state machines (RFC 4137)
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File: fils.h

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\*  
\*  
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\* - One-Key CBC MAC (OMAC1) hash with AES-128  
\* - AES-128 CTR mode encryption  
\* - AES-128 EAX mode encryption/decryption  
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 * - AES-128 CTR mode encryption
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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: suppl\_auth\_api.h

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File: qurt\_atomic\_ops.h

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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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```
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/* $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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//
// @(#)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 $
```

```
=====
```

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

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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

```

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* 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

```

/*

```

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```

```

=====

```

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File: sha384\_i.h

```

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* SHA-384 internal definitions

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\* HMAC-SHA256 KDF (RFC 5295) and HKDF-Expand(SHA256) (RFC 5869)



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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.
// This code is in the public domain; do with it what you wish.
//
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// This code has been tested against that, and is equivalent,
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=====

File: aes\_gcm.h

```
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/*
 * Galois/Counter Mode (GCM) and GMAC with AES
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md5\_api.h

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File: htt\_common.h

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File: athstartpack.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)
*
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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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=====  
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File: dfs\_interface.h



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File: qdf\_status.h

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File: dfs\_debug.c



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File:

dfs\_misc.c

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File: wma\_dfs\_interface.c

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File: qvit\_init\_api.h

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File: wlan\_mlme\_wmi.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_cmnn.cnss/1.0/cnss_proc/wlan/fwcommon/include/queue.h#1 $
//
```

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

File: queue.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: dbglog\_id.h

```
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 */
```

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```
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 */
```

=====

File: htc.h

```
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```

\*/

=====  
File: htt\_deps.h

/\*

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\*/

=====  
File: htt\_common.h

/\*

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htc\_services.h

/\*

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\*/

=====  
File:

wmi\_unified\_vendor.h

/\*

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\*/

=====  
File: strcpy.c

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

/\*

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=====  
File: program\_xml.py

#####

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```

```
=====
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```

File:

interrupt\_xml.py

```
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File: wcsllcat.c

```
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```

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File: machine\_xml.py

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

File: stringl.h

```
/*
```

```

* $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
*/

```

```

=====
===

```

File: ezxml.py

```

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

/\*

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File: merge.py

```
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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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====  
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File: zconf.h

```
/* zconf.h -- configuration of the zlib compression library
 * Copyright (C) 1995-2016 Jean-loup Gailly.
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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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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://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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/\* \$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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File: load.c

```

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/\* \$NetBSD: symbol.c,v 1.38.2.1 2005/12/06 23:31:32 tron Exp \$ \*/

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File: wstrncpy.c

/\*

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

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

\*/

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

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/\* \$NetBSD: map\_object.c,v 1.31 2004/10/22 05:39:56 skrll Exp \$ \*/

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

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/\* \$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.wps/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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/* OPENBSD ORIGINAL: lib/libc/string/strnlen.c */
```

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File: rtld.c
```

```
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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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File: debug.h

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

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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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\* Description: Implementation of printf

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File: sys\_mmap.c

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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

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File: ecc\_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.wps/1.0/securemsm/crypto/shared/src/secnlsfast.c#1 \$ \*/  
 /\* nlsfast: NLS stream cipher and Mundja MAC -- fast implementation \*/

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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. \*/

=====  
===

File: aes\_core.h

Source:

[https://source.codeaurora.org/quic/lc/native\\_client/pnacl-llvm-testsuite/](https://source.codeaurora.org/quic/lc/native_client/pnacl-llvm-testsuite/)

MultiSource/Benchmarks/MiBench/security-rijndael/aes.h

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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\_cmh.c

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File: gf128mul.c

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File: gf128mul.h

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aes\_ctr\_sw.c

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File: hmac\_ce.c

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File: gf\_mul\_lo.h

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aes\_ecb\_sw.c

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File: sha2512\_sw\_cmh.c

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File: inffast.c

```

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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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File:
pbkdf2.c

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File: aes\_gcm\_sw.c

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File: aes\_xts\_sw.c

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File: inflate.c

```

/* inflate.c -- zlib decompression
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File: inflate.h

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/* inflate.h -- internal inflate state definition
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====  
  
File: aes\_ccm\_sw.c

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File: sha256\_sw.c

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File: inftrees.h

```

/* inftrees.h -- header to use inftrees.c
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```

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File: inftrees.c

```

/* inftrees.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: 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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-----  
Issue Date: 20/12/2007

\*/

=====  
File: des\_cbc\_sw.c

/\* =====

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* =====
*
*/

```

```

=====
=====

```

File: zutil.h

```

/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly.
* For conditions of distribution
* and use, see copyright notice in zlib.h
*/

```

```

=====
=====

```

File: brg\_types.h

```

/*

```

```

-----
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```

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-----  
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\*/

=====  
File:

sha\_sw\_cmh.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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\*

\*/

=====

===

File: gcm\_sw.c

/\*

-----

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

=====

File: infback.c

```
/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

=====

File: deflate.h

```
/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

=====

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
```





```

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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>
*
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* See README for more details.
*/
```

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

File: aes\_wrap.h

```
/* For this file, which was received with alternative licensing options for
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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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```

```

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*/

```

```

=====
===

```

File: sha2.h

```

/*
* FILE:  sha2.h
* AUTHOR: Aaron D. Gifford - http://www.aarongifford.com/
*
* Copyright (c) 2000-2001, Aaron D. Gifford
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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: 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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===

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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```

*
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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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```

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=====  
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hca\_HwComponentBbLithium\_dfs\_process\_radarevent.cpp

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=====  
File: phyOsApiWindowsSem.c

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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: \_ieee80211.h

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File: dfs.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\_defines.h

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File: qdf\_net\_types.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: wlan\_mlme\_wmi.c

```

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File: wlan\_p2p\_listen\_offload.c

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```

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File: apf\_interpreter.c

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=====  
File: sha2.c

/\*  
\* FILE: sha2.c  
\* AUTHOR: Aaron D. Gifford - <http://www.aarongifford.com/>  
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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: wal\_dfs.c

```

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File: hca\_HwComponentBbLithium\_dfs\_radar\_report.h

```

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File: sm4\_core.h

```
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```

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

File: sys\_readc\_angel.c

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

File: sys\_time.c

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File: sys\_writec.c

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===
```

File: sys\_readc.c

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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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```

```

=====

```

File: wmi\_unified\_vendor.h

```

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 */

```

```

=====

```

File: wmi\_version.h

```

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```

```

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File: wmix.h

```

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```

```

=====
File: athdefs.h

```

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File: bin_sig.h

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```

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File: bmi_msg.h

```

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```

```

=====
File: dbglog_id.h

```

```

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```

```

/*

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```

=====
File: enet.h

```

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File: epping\_test.h

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File: htc.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: 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_cmnn.cnss/1.0/cnss_proc/wlan/fwcommon/include/queue.h#1 $
//
```

```
=====
```

```
File: targaddr.h
```

```
/*
```

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*
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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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\* 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: 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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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\_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

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\*  
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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
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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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===== */

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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 \$  
\* \$Date: 2013/07/12 \$  
\* \$Change: 2108597 \$  
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=====
File: whal_desc.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: hca_HwComponentBbLithium_dfs_process_radarevent.cpp
```

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```
=====
File: hca_HwComponentBbLithium_dfs_radar_report.h
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 */
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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>
    Copyright (c) 2015, Daniel Tillett <daniel.tillett @ gmail.com>
 */
```

```
=====
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: phyUtilsStrlcpy.c

/\* \$OpenBSD: strlcpy.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: cds_ieee80211_common_i.h
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File: cds_ieee80211_defines.h
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File: ath_dfs_structs.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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 */
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=====  
File: radar\_filters.h

```
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File: types.h

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File: qdf\_status.h

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File: wma\_dfs\_interface.h

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=====  
 File: dfs\_fcc\_bin5.c

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=====
File: dfs_misc.c

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File: dfs_staggered.c

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=====
File: phyrf_dfs.c

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```

```

=====
File: wma_dfs_interface.c

```

```

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```

=====
File: common.h

```

```

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```

*/

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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: suppl\_auth\_api.h
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 \*/

=====  
 File: sha2.c

/\*

\* FILE: sha2.c

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

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=====
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File: apf_interpreter.c

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*/
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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)
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```

```

=====
File: fils.h

```

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/*
 * WPA/RSN - Shared functions for supplicant and authenticator
 * EAP common peer/server definitions
 * EAP
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=====  
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=====  
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File: sha384\_i.h

/\*

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/\*  
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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 \$ \*/

/\*

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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 reckon 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
//  $(257/256) * \text{insize} + 1$ .
//
//-----
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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
// -----
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// 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

/\* -----

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\*

\* \$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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// $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/include/if\_ethersubr.h#1

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

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

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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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/\*

\* 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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```

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 * MD5 hash implementation and interface functions
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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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```
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 * Common helper macros, etc.
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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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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/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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\*\*\*\*\*/

agere\_sta\_fw.bin -- 9.48 Hermes I  
agere\_ap\_fw.bin -- 9.48 Hermes I

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The following statement from Agere clarifies the status of the firmware

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The Linux driver architecture was based on two modules, the MSF (Module specific functions) and the HCF (Hardware Control Functions). Included in the HCF is run-time firmware (binary format) which is downloaded into the RAM of the Hermes 1/2/2.5 WMAC.

This hex coded firmware is not based on any open source software and hence it is not subject to any Open Source License. The firmware was developed by Agere and runs on the DISC processor embedded within the Hermes 1/2/2.5 Wireless MAC devices.

Hope this helps.

Sincerely,

Viren Pathare  
Intellectual Property Licensing Manager  
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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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The following XC500C firmware file "dvb-fe-xc5000C-4.1.30.7.fw" was created based on "Xc5200\_firmwares\_32000Khz.h".

Firmware provided as part of an XC5000C Linux developers kit by Ramon Cazares <Ramon.Cazares@CrestaTech.com> to Devin Heitmueller dheitmueller@linuxtv.org on July 25, 2012.

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute
it
under certain conditions; type `show c' for details.
```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.200 python-pbr 6.1.1

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# 1.204 open-vm-tools 12.5.0-24276846

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## 1.205 python-klein 24.8.0

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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:

\* Based on libdl (dlfcn.c/dlfcn.h) which is  
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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:

\*  
\* cvt - IEEE floating point formatting routines.  
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\*

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# 1.209 python-requests 2.32.4

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# 1.210 erlang-otp 26.2.5.13

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Written by: Philip Hazel  
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Email domain: cam.ac.uk

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\* Info:

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\* Tool: Autoconf

\* 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

./lib/common\_test/test\_server/configure and

./lib/common\_test/configure

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[config.guess and config.sub scripts]

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\* Tool: Autoconf  
\* Version: 2.71  
\* Website:  
<https://www.gnu.org/software/autoconf/>  
\* OTP Location: ./make/autoconf/config.{guess,sub} and  
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\* Tool: Autoconf  
\* Version: 2.71  
\* Website: <https://www.gnu.org/software/autoconf/>  
\* OTP Location: ./make/autoconf/install-sh and  
                  ./erts/autoconf/install-sh and  
                  ./lib/common\_test/test\_server/install-sh

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[erl\_posix\_str.c]

\* Info:  
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\* Modification of tclPosixStr.c from TCL  
\* Library: TCL  
\* Version 7.6  
\* Website: <https://www.tcl.tk/>

\* OTP Location: ./erts/emulator/beam/erl\_posix\_str.c

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[various  
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./lib/dialyzer/test/options1\_SUITE\_data/src/compiler/cerl\_clauses.erl

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\* ./lib/compiler/src/cerl\_inline.erl

and

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\* ./lib/kernel/src/pg.erl and lib/kernel/doc/src/pg.xml and

./lib/kernel/test/pg\_SUITE.erl and ./lib/stdlib/src/peer.erl

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\* ./lib/kernel/doc/src/peer.xml

\* Maxim Fedorov, WhatsApp Inc.

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[AsmJit]

\* Info

\* SPDX-License-Identifier: Zlib

\* Library: AsmJit

\* Git Repository: <https://github.com/asmjit/asmjit>

\* Commit: 915186f6c5c2f5a4638e5cb97ccc23d741521a64

\* OTP Location: erts/emulator/asmjit

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[PCRE]

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\* Library: PCRE  
\* Version: 8.44  
\* Website: <https://pcre.org>  
\* OTP Location: ./erts/emulator/pcre

## PCRE LICENCE

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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

## THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
Email local part: ph10

Email domain: cam.ac.uk

University of Cambridge Computing Service,  
Cambridge, England.

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#### PCRE JUST-IN-TIME COMPILATION SUPPORT

-----

Written by: Zoltan Herczeg  
Email local part: hzmester  
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End

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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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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://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).

\*/

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[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](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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[fp16]

\* Info:  
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\* Library: FP16  
\* Git Repository: <https://github.com/Maratyszczka/FP16>  
\* Commit: 0a92994d729ff76a58f692d3028ca1b64b145d91  
\* OTP Location: ./erts/emulator/beam/erl\_bits\_f16.h

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[OpenSSL MD5 implementation]

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\* 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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[jquery]

- \* Info:
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- \* Tool: jquery

\* 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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[tablesorter]

\* Info:  
\* SPDX-License-Identifier: MIT or GPL-2.0-only  
\* Tool: tablesorter  
\* 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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Any

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# 1.215 bidict 0.23.1

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

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

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

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

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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

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# 1.220 python 3.11.11

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#### A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to



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

All

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  |            |                     |
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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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# 1.223 typing-extensions 4.12.2

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### A. HISTORY OF THE SOFTWARE

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

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

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

All

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

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

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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## 1.224 typeguard 4.3.0

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## 1.225 grep 3.12

### 1.225.1 Available under license :

/\* Extract the last component (base name) of a file name.

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

```
#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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```
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```

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Ty Coon, President of Vice

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/\* nicstar.c v0.22 Jawaidd Bazyar (bazyar@hypermall.com)

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

\*

\* Hacked October, 1997 by Jawaidd Bazyar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

- \* interrupts us (except possibly for removal/insertion of the cable?)
- \* 10/4/97 - began heavy inline documentation of the code. Corrected typos
- \* and spelling mistakes.
- \* 10/5/97 - added code to handle PHY interrupts, disable PHY on
- \* loss of link, and correctly re-enable PHY when link is
- \* re-established. (put back CFG\_PHYIE)
- \*
- \* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
- \*
- \* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
- \*
- \* Linux driver for the IDT77201 NICStAR PCI ATM controller.
- \* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
- \* see init\_nicstar() for PHY initialization to change this. This driver
- \* expects the Linux ATM stack to support scatter-gather
- lists
- \* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
- \*
- \* Implementing minimal-copy of received data:
- \* IDT always receives data into a small buffer, then large buffers
- \* as needed. This means that data must always be copied to create
- \* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- \* Fix is simple: make large buffers large enough to hold entire
- \* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then
- \* copy small buffer contents to head of large buffer.
- \* Trick is to avoid fragmenting Linux, due to need for a lot of large
- \* buffers. This is done by 2 things:
- \* 1) skb->destructor / skb->atm.recycle\_buffer
- \* combined, allow nicstar\_free\_rx\_skb to be called to
- \* recycle large data buffers
- \* 2) skb\_clone of received buffers
- \* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation
- \* details.
- \*
- \*
- \*
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\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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```

```
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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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## 1.231 apache-http-server 2.4.64

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<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" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X

    This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
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">
</script>

<link href="/.images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="/.mod/">Modules</a> | <a href="/.mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/.glossary.html">Glossary</a> | <a
href="/.sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="/."></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> &gt; <a href="http://httpd.apache.org/">HTTP Server</a> &gt; <a
```



<http://httpd.apache.org/docs/>>Documentation</a> &gt; <a href=".">Version 2.4</a></div><div id="page-content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>  
<div class="toplang">  
<p><span>Available  
Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>  
</div>

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<div class="bottomlang">

<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>

</div><div class="top"><a href="#page-header"></a></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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<script type="text/javascript"><!--<!--><![CDATA[</script><!--

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);
//--><![></script></div><div id="footer">
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<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
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[<!--><!--
if (typeof(prettyPrint) !== 'undefined') {
prettyPrint();
}
--><![></script>
</body></html>
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```

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```

/*****
* NCSA HTTPd Server
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*
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*
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* -----
*/

```

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```

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For the test\zb.c component:

```
/*              ZeusBench V1.01
=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

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

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## 1.232 cracklib 2.10.3

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Random Hacker.

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

That's all there is to it!

-----  
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.  
=2Dmike

Re: [Cracklib-devel]  
cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46  
Seems like the ideal thing here would be for you and the other distro  
maintainers to get together with Alec in a conversation and come to a  
decision as to what licensing scheme y'all want. I haven't really done  
much other than cleaning up the packaging and patches and a small bit of  
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan  
=20

-----  
Nathan Neulinger EMail: nneul@um...  
University of Missouri - Rolla Phone: (573) 341-6679

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec

> directly

> > and see if he wants to relicense his code as LGPL... but at this

> point,

> > it was enough to just get it consistent and documented as to what

> it was

> > released under. This wasn't actually a license change, just a

> > clarification of the licensing that was already in place.

>=20

> the original license (before moving to sourceforge -- aka, 2.7) was

> not

> GPL-2 ... it was a modified artistic license ... i didnt notice the

> license

> change until it was mentioned in the latest notes.

>=20

> unlike the old license, GPL-2 prevents people from using cracklib

> unless their

> applications are also GPL-2 which imo is just wrong. it isnt the

> place of a

> library

to dictact to application writes what license they should

> be using.

> thus LGPL-2.1 enters to fill this void.

> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro

> maintainers to get together with Alec in a conversation and come to a

> decision as to what licensing scheme y'all want. I haven't really done

> much other than cleaning up the packaging and patches and a small

> bit of

> additional code, so whatever licensing y'all come up with is fine

> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

> > Seems like the ideal thing here would be for you and the other distro  
> > maintainers to get together with Alec in a conversation and come to a  
> > decision as to what licensing scheme y'all want. I haven't really done  
> > much other than cleaning up the packaging and patches and a small  
> > bit of  
> > additional

code, so whatever licensing y'all come up with is fine

> > by me.

>

> I am sympathetic. Guys, what do you reckon?

>

> What I am hearing so far is that LGPL makes sense, since it can be  
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the

GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

> > > Seems like the ideal thing here would be for you and the other distro

> > > maintainers to get together with Alec in a conversation and come to a

> > > decision as to what licensing scheme y'all want. I haven't really done

> > > much other than cleaning up the packaging and patches and a small

> > > bit of

> > > additional code, so whatever licensing y'all come up with is fine

> > > by me.

> >

> > I am sympathetic. Guys, what do you reckon?

> >

> > What I am hearing so far is that LGPL makes sense, since it can be

> > linked with any code, not just GPL...

>

> My apologies for not chiming in in anything resembling a reasonable

> timeframe.

>

> I'd also suggest the LGPL, for the reason you noted above. Alternately,

> GPLv2 with the option of using

the library under a later version of the

> GPL would permit applications which were released under version 3 of the

> GPL to use the library, too, which would be sufficient for the packages

> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October

2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we  
> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

-----

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

-----

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-----

From  
alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 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

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yaml-cpp: A YAML parser and emitter in C++

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fastlz: an ANSI C/C90 implementation of Lempel-Ziv 77 algorithm (LZ77) of lossless data compression.

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FastLZ - Byte-aligned LZ77 compression library

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## 1.242 bash 5.3.3

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## 1.244 gettext 0.26

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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.

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

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/\* Extract the last component (base name) of a file name.

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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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## 1.249 pciutils 3.14.0

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