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## 1.2 unzip 6.0

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This file contains some details about the copyright history of contributions to the UnZip project.

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-----

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):

Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/\*"), Steve P. Miller (Pocket UnZip GUI "wince/\*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

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There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding \_in an apparatus that performs LZW encoding\_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode();

replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip

5.42, the complete

core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program.

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- \* MoreFiles
- \*
- \* A collection of File Manager and related routines
- \*
- \* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
- \* with significant code contributions by Nitin Ganatra
- \* (Apple Macintosh Developer Technical Support Emeritus)
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- \*
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-----

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Regarding the first stipulation, Mr. Smith was tracked down in southern  
California some years back [Samuel H. Smith, The Tool Shop; as of mid-  
May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),  
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that  
he has no objection to the Info-ZIP group's inclusion of his code.  
His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten  
and by default  
no longer contains any of Mr. Smith's code, Info-ZIP  
remains indebted and grateful to him. We hope he finds our contribu-

tions as useful as we have his.

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

-----

## 1.3 bzip2 1.0.8

## 1.4 net-tools 1.60

### 1.4.1 Available under license :

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Version 2, June 1991

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-----

\* Original author: Nathan Neulinger (nneul@umr.edu)

\* Based on code from The Apache Group

\* Previous maintainers:

-----

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\* Past contributors (from CHANGES):

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```
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```
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```

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## 1.8 coreutils 9.8

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# 1.9 opensaml 3.3.1

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## 1.11 libdbus++ 0.9.0

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Version 2.1, February 1999

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## 1.12 iana-etc 2.30

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## 1.13 pam-ldap 186

### 1.13.1 Available under license :

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Version 2, June 1991

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## 1.15 ooid 0.999

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# 1.16 stringencoders 3.10.3

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## 1.18 python-pycpuid 0.4

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## 1.19 python-netifaces 0.11.0

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## 1.25 apr-util 1.6.3

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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## 1.26 popt 1.19

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## 1.28 boost 1.80.0

### 1.28.1 Available under license :

////

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////

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

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

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

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

.Converting an existing MPL Sequence into an `mp_list`

...

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

...

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

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

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

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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.

@end enumerate

For an executable, the required form of the ``work that uses the Library'' must include any data and utility programs needed for reproducing the executable from

it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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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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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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@center END OF TERMS AND CONDITIONS

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@page

@center How to Apply These Terms to Your New Libraries

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

@format

@t{

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

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Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA  
}  
@end format

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

@format  
@t{  
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice  
}  
@end format

That's all there is to it!

@c @bye

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Version 2.1, February 1999

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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

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

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

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

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

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

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

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

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

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- 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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Version 3, 29 June 2007

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```
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## 1.33 gobject-introspection 1.60.0

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Version 2, June 1991

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## 1.34 libnsl 2.0.1

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## 1.41 sshpass 1.10

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## 1.43 python-contextlib2 21.6.0

## 1.43.1 Available under license :

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

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

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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                 |
| 2.5.1   | 2.5          | 2007 | PSF   | yes                 |
| 2.5.2   | 2.5.1        | 2008 | PSF   | yes                 |
| 2.5.3   | 2.5.2        | 2008 | PSF   | yes                 |
| 2.6     | 2.5          | 2008 | PSF   | yes                 |
| 2.6.1   | 2.6          | 2008 | PSF   | yes                 |

|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
| 3.1.2 | 3.1.1 | 2010 | PSF | yes |
| 3.1.3 | 3.1.2 | 2010 | PSF | yes |
| 3.1.4 | 3.1.3 | 2011 |     |     |
| PSF   | yes   |      |     |     |
| 3.2   | 3.1   | 2011 | PSF | yes |
| 3.2.1 | 3.2   | 2011 | PSF | yes |
| 3.2.2 | 3.2.1 | 2011 | PSF | yes |
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Python/Jython

## 1.44 python-dbus 1.3.2

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## 1.45 python-tubes 0.2.1

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File: aclocal.m4 (only for ICU4C)  
Section: pkg.m4 - Macros to locate and utilise pkg-config.

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-----

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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 \*/

## 1.52 ntp 4.2.8p18

### 1.52.1 Available under license :

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Version 3, 29 June 2007

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## 1.56 libargon2 20190702

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Argon2 reference source code package - reference C implementations

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\* @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>

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Any

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## GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language  
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```

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## 1.60 json-c 0.18

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## 1.69 diffutils 3.11

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Version 3, 29 June 2007

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## 1.71 libuv 1.51.0

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\*/

#ifndef UV\_BSD\_H

#define UV\_BSD\_H

#define UV\_PLATFORM\_FS\_EVENT\_FIELDS \

uv\_\_io\_t event\_watcher; \

#define UV\_IO\_PRIVATE\_PLATFORM\_FIELDS \

int rcount; \

int wcount; \

#define UV\_HAVE\_KQUEUE 1

#endif /\* UV\_BSD\_H \*/

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## 1.74 libidn 1.43

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

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

```
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 */
```

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

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

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```

-----  
For t\_cl\_generator.cc

```
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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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## 1.84 grep 3.12

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```
#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

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

#include <stddef.h>

#ifndef
DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif

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

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

```

/* This function was traditionally called 'basename', but we avoid this
function name because
* Various platforms have different functions in their libc.
In particular, the glibc basename(),
defined in <string.h>, does
not consider trailing slashes to be part of the component:
    FILENAME    RESULT
    "foo/bar/"   ""
    "foo/bar/"   ""
* The 'basename' command eliminates trailing slashes and for a root
produces a non-empty result:
    FILENAME    RESULT
    "foo/bar/"   "bar"
    "foo/bar/"   "bar"
    "/"          "/"
    "/"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
Typically FILENAME is the value returned by base_name or last_component.
Act like strlen (FILENAME), except omit all trailing slashes. */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;

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

#endif /* _BASENAME_LGPL_H */
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```

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## 1.85 e2fsprogs 1.47.3

### 1.85.1 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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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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```
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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```

*/
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#define UTIL_LINUX_PT_BSD_H

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED 0

#ifndef BSD_DISKMAGIC
# define BSD_DISKMAGIC ((uint32_t) 0x82564557)
#endif

#define BSD_LINUX_BOOTDIR "/usr/ucb/mdec"

#if defined (__alpha__) || defined (__powerpc__) || \
    defined (__ia64__) || defined (__hppa__)
# define BSD_LABELSECTOR 0
# define BSD_LABELOFFSET 64
#else
# define BSD_LABELSECTOR 1
# define BSD_LABELOFFSET 0
#endif

#define BSD_BBSIZE      8192 /* size of boot area, with label */
#define BSD_SBSIZE      8192 /* max size of fs superblock */

struct bsd_disklabel {
    uint32_t d_magic; /* the magic number */
    int16_t d_type; /* drive type */
    int16_t d_subtype; /* controller/d_type specific */
    char d_typename[16]; /* type name, e.g. "eagle" */
    char d_packname[16]; /* pack identifier */

    /* disk geometry: */
    uint32_t d_sectsize; /*
# of bytes per sector */
    uint32_t d_nsectors; /* # of data sectors per track */
    uint32_t d_ntracks; /* # of tracks per cylinder */
    uint32_t d_ncylinders; /* # of data cylinders per unit */
    uint32_t d_secp cyl; /* # of data sectors per cylinder */
    uint32_t d_secperunit; /* # of data sectors per unit */

    /*
* Spares (bad sector replacements) below
* are not counted in d_nsectors or d_secp cyl.
* Spare sectors are assumed to be physical sectors
* which occupy space at the end of each track and/or cylinder.
*/
    uint16_t d_sparepertrack; /* # of spare sectors per track */

```

```

uint16_t d_sparepercyl; /* # of spare sectors per cylinder */

/*
 * Alternate cylinders include maintenance, replacement,
 * configuration description areas, etc.
 */
uint32_t d_acylinders; /* # of alt. cylinders per unit */

/* hardware characteristics: */
/*
 * d_interleave, d_trackskew and d_cylskew describe perturbations
 * in the media format used to compensate for a slow
controller.
 * Interleave is physical sector interleave, set up by the formatter
 * or controller when formatting. When interleaving is in use,
 * logically adjacent sectors are not physically contiguous,
 * but instead are separated by some number of sectors.
 * It is specified as the ratio of physical sectors traversed
 * per logical sector. Thus an interleave of 1:1 implies contiguous
 * layout, while 2:1 implies that logical sector 0 is separated
 * by one sector from logical sector 1.
 * d_trackskew is the offset of sector 0 on track N
 * relative to sector 0 on track N-1 on the same cylinder.
 * Finally, d_cylskew is the offset of sector 0 on cylinder N
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm; /* rotational speed */
uint16_t d_interleave; /* hardware sector interleave */
uint16_t d_trackskew; /* sector 0 skew, per track */
uint16_t d_cylskew; /* sector 0 skew, per cylinder */
uint32_t d_headswitch; /* head switch time, usec */
uint32_t d_trkseek; /*
track-to-track seek, usec */
uint32_t d_flags; /* generic flags */
uint32_t d_drivedata[5]; /* drive-type specific information */
uint32_t d_spare[5]; /* reserved for future use */
uint32_t d_magic2; /* the magic number (again) */
uint16_t d_checksum; /* xor of data incl. partitions */

/* filesystem and partition information: */
uint16_t d_npartitions; /* number of partitions in following */
uint32_t d_bbsize; /* size of boot area at sn0, bytes */
uint32_t d_sbsize; /* max size of fs superblock, bytes */

struct bsd_partition { /* the partition table */
    uint32_t p_size; /* number of sectors in partition */
    uint32_t p_offset; /* starting sector */
    uint32_t p_fsize; /* filesystem basic fragment size */

```

```

uint8_t p_fstype; /* filesystem type, see below */
uint8_t p_frag; /* filesystem fragments per block */
uint16_t p_cpg; /* filesystem cylinders per group */
} __attribute__((packed))
d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));

/* d_type values: */
#define BSD_DTYPE_SMD 1 /* SMD, XSMD; VAX hp/up */
#define BSD_DTYPE_MSCP 2 /* MSCP */
#define BSD_DTYPE_DEC 3 /* other DEC (rk, rl) */
#define BSD_DTYPE_SCSI 4 /* SCSI */
#define BSD_DTYPE_ESDI 5 /* ESDI interface */
#define BSD_DTYPE_ST506 6 /* ST506 etc. */
#define BSD_DTYPE_HPIB 7 /* CS/80 on HP-IB */
#define BSD_DTYPE_HPFL 8 /* HP Fiber-link */
#define BSD_DTYPE_FLOPPY 10 /* floppy */

/* d_subtype values: */
#define BSD_DSTYPE_INDOSPART 0x8 /* is inside dos partition */
#define BSD_DSTYPE_DOSPART(s) ((s) & 3) /* dos partition number */
#define BSD_DSTYPE_GEOMETRY 0x10 /* drive params in label */

/*
 * Filesystem type and version.
 * Used to interpret other filesystem-specific
 * per-partition information.
 */
#define BSD_FS_UNUSED 0 /* unused */
#define BSD_FS_SWAP 1 /* swap */
#define BSD_FS_V6 2 /* Sixth Edition */
#define BSD_FS_V7
    3 /* Seventh Edition */
#define BSD_FS_SYSV 4 /* System V */
#define BSD_FS_V71K 5 /* V7 with 1K blocks (4.1, 2.9) */
#define BSD_FS_V8 6 /* Eighth Edition, 4K blocks */
#define BSD_FS_BSDFFS 7 /* 4.2BSD fast file system */
#define BSD_FS_BSDLFS 9 /* 4.4BSD log-structured file system */
#define BSD_FS_OTHER 10 /* in use, but unknown/unsupported */
#define BSD_FS_HPFS 11 /* OS/2 high-performance file system */
#define BSD_FS_ISO9660 12 /* ISO-9660 filesystem (cdrom) */
#define BSD_FS_ISOFS BSD_FS_ISO9660
#define BSD_FS_BOOT 13 /* partition contains bootstrap */
#define BSD_FS_ADOS 14 /* AmigaDOS fast file system */
#define BSD_FS_HFS 15 /* Macintosh HFS */
#define BSD_FS_ADVFS 16 /* Digital Unix AdvFS */

```

```

/* this is annoying, but it's also the way it is :-( */
#ifdef __alpha__
#define BSD_FS_EXT2 8 /* ext2 file system */
#else
#define BSD_FS_MSDFS 8 /* MS-DOS file system */
#endif

/*
 * flags shared by various drives:
 */
#define BSD_D_REMOVABLE 0x01 /*
removable media */
#define BSD_D_ECC 0x02 /* supports ECC */
#define BSD_D_BADSECT 0x04 /* supports bad sector forw. */
#define BSD_D_RAMDISK 0x08 /* disk emulator */
#define BSD_D_CHAIN 0x10 /* can do back-back transfers */
#define BSD_D_DOSPART 0x20 /* within MSDOS partition */

#endif /* UTIL_LINUX_PT_BSD_H */

```

# 1.88 mpfr 4.2.2

## 1.88.1 Available under license :

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Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
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The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
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Castro, Felipe  
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Chornoivan, Yuri  
Diguez, Francisco  
Doghonadze, Temuri  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove  
Jerovek, Damir  
Karvonen, Jorma

Kazik, Duan  
Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Florentina Muat  
Nurmi, Lauri  
Nikoli, Miroslav  
Nylander, Daniel  
Pan, Yi-Jyun  
Psa, Petr  
Puente, Enol  
Putanec, Boidar  
Qun, Trn Ngc  
Rasmussen, Sebastian  
Regueiro, Leandro  
Sarer, zgr  
Selimaj, Agron  
Sendn, Abel  
erbnescu, Daniel  
Shahedany, Eshagh  
Sikrom, ka  
Spingos, Dimitris  
Taniguchi, Yasuaki  
Tomat, Fbio  
Triwidada, Andika  
r, Balzs  
Uranga, Mikel Olasagasti  
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The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent

Sandwich logo (inspired by xkcd): Stillman, Mark

## 1.90 gzip 1.14

## 1.90.1 Available under license :

/\* 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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Version 3, 29 June 2007

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

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## 1.91 libnettle6 3.10.2

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## 1.92 cracklib 2.10.3

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



that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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^L

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a) Accompany the combined library with a copy of the same work based on the Library, uncombined

with any other library

facilities. This must be distributed under the terms of the Sections above.

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

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

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

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

That's all there is to it!

-----  
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  
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----  
> From: cracklib-devel-bounces@li...  
> [mailto:cracklib-devel-bounces@li...] On Behalf Of  
> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:33 PM  
> To: Neulinger, Nathan  
> Cc: cracklib-devel@li...; Alec Muffett  
> Subject: Re: [Cracklib-devel] cracklib license  
=>20  
> On Monday 01 October 2007, Neulinger, Nathan wrote:  
> > I understand that, and you're welcome to bring it up with Alec  
> directly  
> > and see if he wants to relicense his code as LGPL... but at this  
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> > 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.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.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.umn.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.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxtpr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from

[82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length:  
585  
Lines: 21

>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

# 1.93 traceroute 2.1.6

## 1.93.1 Available under license :

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Version 2, June 1991

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## 1.94 iputils 20250605

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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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## 1.102 pciutils 3.14.0

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## 1.103 smartmontools 7.5

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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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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
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## 1.122 python-lxml 6.0.2

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- \* The (XML syntax) RelaxNG schema for schematron, copyright International Organization for Standardization (see <src/lxml/isoschematron/resources/rng/iso-schematron.rng> for the license text)
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<src/lxml/isoschematron/resources/xsl/RNG2Schtrn.xsl> and  
<src/lxml/isoschematron/resources/xsl/XSD2Schtrn.xsl>)

## 1.123 pyasn1-modules 0.4.2

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ASN.1 library for Python

-----

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.python.org/pypi/pyasn1)  
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.python.org/pypi/pyasn1/)  
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[![GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/etingof/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).

## Features

-----

\*

Generic implementation of ASN.1 types (X.208)

\* Standards compliant BER/CER/DER codecs

\* Dumps/loads ASN.1 structures from Python types

\* 100% Python, works with Python 2.4 up to Python 3.6

\* 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](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1

-----

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.python.org/pypi/pyasn1>).

If something does not work as expected, [open an issue](<https://github.com/etingof/pyasn1/issues>) at GitHub or post your question [on Stack Overflow](<http://stackoverflow.com/questions/ask>) or try browsing pyasn1 [mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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\* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/README.md

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ASN.1 library for Python

=====

.. toctree::

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Abstract Syntax Notation One (ASN.1

<[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x)>\_) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <<https://pypi.python.org/pypi/pyasn1/>>\_ library implements ASN.1 support in pure-Python.

What is ASN.1

-----

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and became a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <<https://news.ycombinator.com/item?id=8871453>>`\_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <<https://developers.google.com/protocol-buffers/>>`\_ or `FlatBuffers <<https://google.github.io/flatbuffers/>>`\_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- \* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

#### ASN.1 applications

-----

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

## ASN.1 gotchas

-----

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

## Documentation

-----

```
.. toctree::  
    :maxdepth: 2
```

[/pyasn1/contents](#)

## Use case

-----

```
.. toctree::  
    :maxdepth: 2
```

[/example-use-case](#)

## Download & Install

-----

```
.. toctree::  
    :maxdepth: 2
```

[/download](#)

## Changes

-----

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

```
.. toctree::  
    :maxdepth: 1
```

[/changelog](#)



## License

-----

The PyASN1 software is distributed under 2-clause BSD License.

```
.. toctree::  
    :maxdepth: 2
```

/license

## Getting help

-----

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`\_ and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`\_ at GitHub. Alternatively, you could ask for help at `Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`\_ or search `pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`\_ mailing list archive.

## Books on ASN.1

-----

The pyasn1 implementation is largely based on reading up the following awesome books:

- \* `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>`\_ by Olivier Dubuisson
- \* `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>`\_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

- \* `ITU standards` <<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>`\_

On the other end of the readability spectrum, here is a quick and sweet write up:

- \* `A Layman's Guide to a Subset of ASN.1, BER, and DER` <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>`\_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/codec/ber/encoder.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/type/base.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/compat/\_\_main\_\_.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/codec/cer/decoder.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/type/error.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/base.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/codec/cer/test\_decoder.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/codec/der/encoder.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/type/constraint.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/type/test\_namedval.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/type/namedval.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/compat/dateandtime.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/codec/cer/encoder.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/codec/native/decoder.py
- \*
- /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/\_\_main\_\_.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/test\_debug.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/compat/octet.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/type/namedtype.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/codec/der/test\_decoder.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/type/test\_constraint.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/codec/native/test\_decoder.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/compat/binary.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/type/\_\_main\_\_.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/type/test\_opentype.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/compat/integer.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/compat/string.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/type/test\_useful.py
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- /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/compat/test\_binary.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/type/tagmap.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/codec/ber/decoder.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/codec/ber/eoo.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/codec/cer/\_\_main\_\_.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/type/opentype.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/compat/test\_octets.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/codec/der/\_\_main\_\_.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/compat/calling.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/type/test\_namedtype.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/type/univ.py
- \* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/debug.py

```

* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/codec/native/encoder.py
* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/codec/der/test_encoder.py
* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/type/test_tag.py
* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/type/useful.py
*
/pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/compat/test_integer.py
* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/type/test_char.py
* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/type/tag.py
* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/type/char.py
* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/type/test_univ.py
* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/codec/ber/__main__.py
* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/error.py
* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/codec/ber/test_decoder.py
* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/pyasn1/codec/der/decoder.py
* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/setup.py
* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/codec/ber/test_encoder.py
* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/codec/native/test_encoder.py
* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/tests/codec/__main__.py

```

# 1.124 jsonschema 4.17.3

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# 1.130 idna 3.11

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## 1.134 charset-normalizer 3.4.4

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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.

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

Name: web.py

Version: 0.62

Summary: web.py: makes web apps

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



Author: Aaron Swartz

Author-email: me@aaronsw.com

Maintainer: Anand Chitipothu

Maintainer-email: anandology@gmail.com

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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.

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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

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Requires-Python: >=3.5

Description-Content-Type: text/markdown

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\* /web-py-0-62-tar-gz/web.py-0.62/web/template.py

# 1.140 configobj 5.0.9

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## 1.143 bcrypt 4.1.3

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## 1.144 zope-component 6.0

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## 1.146 pyrfc3339 2.0.1

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## 1.151 python-certifi 2025.10.5

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

# 1.152 python-setuptools 80.9.0

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```
python -m validate_pyproject.pre_compile --output-dir=setuptools/config/_validate_pyproject --enable-plugins
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```

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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  |            |                     |
| PSF            | yes          |           |            |                     |

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Both were inspired by Twisted's

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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.

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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
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| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |

|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
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| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
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| 2.5.3 | 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 |
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## 1.172 pbr 7.0.3

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---
language: text
---
```
```

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

```
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@end macro
```

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

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

```
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```

```
@copyrightstart  
@verbatim
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@item KCM

credential cache.

@item HDB LDAP backend.

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AES in

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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

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

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lib/hcrypto/test\_dh.c

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## 1.177 linux-kernel 6.16.10

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

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

\*

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

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

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

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

- \* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
- \*
- \* Linux driver for the IDT77201 NICStAR PCI ATM controller.
- \* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
- \* see init\_nicstar() for PHY initialization to change this. This driver
- \* expects the Linux ATM stack to support scatter-gather
- lists
- \* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
- \*
- \* Implementing minimal-copy of received data:
- \* IDT always receives data into a small buffer, then large buffers
- \* as needed. This means that data must always be copied to create
- \* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- \* Fix is simple: make large buffers large enough to hold entire
- \* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then
- \* copy small buffer contents to head of large buffer.
- \* Trick is to avoid fragmenting Linux, due to need for a lot of large
- \* buffers. This is done by 2 things:
- \* 1) skb->destructor / skb->atm.recycle\_buffer
- \* combined, allow nicstar\_free\_rx\_skb to be called to
- \* recycle large data buffers
- \* 2) skb\_clone of received buffers
- \* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation
- \* details.
- \*
- \*
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- \*
- \* M. Welsh, 6 July 1996
- \*
- \*
- \*/



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# 1.182 incremental 24.11.0

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Written by: Philip Hazel  
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-----  
[configure scripts]

\* Info:  
\* SPDX-License-Identifier: FSFUL  
\* 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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#

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-----  
[config.guess and config.sub scripts]

\* Info:  
\* SPDX-License-Identifier: GPL-3.0-or-later WITH Autoconf-exception-generic-3.0  
\* Tool: Autoconf  
\* Version: 2.71  
\* Website:  
<https://www.gnu.org/software/autoconf/>  
\* OTP Location: ./make/autoconf/config.{guess,sub} and  
                  ./erts/autoconf/config.{guess,sub} and  
                  ./lib/common\_test/test\_server/config.{guess,sub}

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#
# Originally written by Per Bothner; maintained since 2000 by Ben Elliston.
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# https://git.savannah.gnu.org/cgit/config.git/plain/config.guess
#
# Please send patches to <config-patches@gnu.org>.
```

-----  
[install-sh scripts]

```
* Info:
* SPDX-License-Identifier: MIT
* 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:  
\* SPDX-License-Identifier: TCL  
\* 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/stdlib/src/proplists.erl

\* Copyright (C) 2000-2003 Richard Carlsson  
\* ./lib/compiler/src/cerl\_trees.erl and  
./lib/dialyzer/test/options1\_SUITE\_data/src/compiler/cerl\_trees.erl  
\* Copyright (C) 1999-2002 Richard Carlsson  
\* ./lib/compiler/src/cerl\_clauses.erl and  
./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]

\* Info:  
\* SPDX-License-Identifier: BSD-3-Clause  
\* 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

-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

University of Cambridge Computing Service,  
Cambridge, England.

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Written by: Zoltan Herczeg  
Email local part: hzmester  
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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@zip.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).

\*/

-----  
[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#L1](https://github.com/microsoft/STL/blob/e745bad3b1d05b5b19ec652d68abb37865ffa454/stl/inc/xcharconv_ryu.h#L1)



\* OTP Location: ./erts/emulator/ryu/d2s.c:to\_chars()

// xcharconv\_ryu.h internal header

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[fp16]

\* Info:

\* SPDX-License-Identifier: MIT

\* Library: FP16

\* Git Repository: <https://github.com/Maratyszczka/FP16>

\* Commit: 0a92994d729ff76a58f692d3028ca1b64b145d91

\* OTP Location: ./erts/emulator/beam/erl\_bits\_fp16.h

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-----  
[OpenSSL MD5 implementation]

\* Info:

\* SPDX-License-Identifier: Apache-2.0

\* Library: OpenSSL

\* Version: 3.1.4

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

\* Commit: 01d5e2318405362b4de5e670c90d9b40a351d053

\* OTP Location: ./erts/emulator/openssl and  
./lib/erl\_interface/src/openssl

/\*

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\* OTP Location: ./lib/dialyzer

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\* OTP Location: ./lib/edoc and ./lib/syntax\_tools

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./lib/parsetools/doc/src/leex.xml

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

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fastlz: an ANSI C/C90 implementation of Lempel-Ziv 77 algorithm (LZ77) of lossless data compression.  
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## 1.188 liburcu 0.15.2

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<!--

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# Userspace-RCU LGPL 2.1+ re-licensing

Mathieu Desnoyers

May 13th, 2009

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

<https://lists.lttng.org/pipermail/lttng-dev/2009-May/012835.html>

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

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

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

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

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

[http://www.hpl.hp.com/research/linux/atomic\\_ops/](http://www.hpl.hp.com/research/linux/atomic_ops/)

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

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

```
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#include <urcu.h>
****
```

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## 1.189 ncurses 6.6

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Upstream-Name: ncurses

Upstream-Contact: Thomas E. Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

Source: <https://invisible-island.net/ncurses/ncurses.html>

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Upstream-Name: AdaCurses  
Upstream-Contact: Thomas E. Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>  
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## 1.194 coverage 7.13.1

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```

*/
#include <net-snmp/system/generic.h>

/*
* the bsd route symbol adds an 's' at the end to this symbol name
*/
#undef RTTABLES_SYMBOL
#define RTTABLES_SYMBOL "rt_tables"

/*
* BSD systems use a different method of looking up sockaddr_in values
*/
#define NEED_KLGETSA 1

#define UTMP_HAS_NO_TYPE 1
#define UTMP_HAS_NO_PID 1

```

# 1.196 tcpdump 4.99.6

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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;
```

# 1.197 eudev 3.2.14

## 1.197.1 Available under license :

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Version 2, June 1991

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## 1.198 pyasn1 0.6.2

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Revision 0.6.2, released 16-01-2026

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- CVE-2026-23490 (GHSA-63vm-454h-vhhq): Fixed continuation octet limits in OID/RELATIVE-OID decoder (thanks to tsigouris007)
- Added support for Python 3.14  
[pr #97](https://github.com/pyasn1/pyasn1/pull/97)
- Added SECURITY.md policy
- Fixed unit tests failing due to missing code

[issue #91](https://github.com/pyasn1/pyasn1/issues/91)  
[pr #92](https://github.com/pyasn1/pyasn1/pull/92)  
- Migrated to pyproject.toml packaging  
[pr #90](https://github.com/pyasn1/pyasn1/pull/90)

Revision 0.6.1, released 10-09-2024

-----

- Added support for Python 3.13 and updated GitHub Actions  
[pr #73](https://github.com/pyasn1/pyasn1/pull/73/)
- Removed Python 2 support and related code  
[pr #62](https://github.com/pyasn1/pyasn1/pull/62/)  
[pr #61](https://github.com/pyasn1/pyasn1/pull/61/)  
[pr #60](https://github.com/pyasn1/pyasn1/pull/60/)
- Improved error handling and consistency  
[pr #71](https://github.com/pyasn1/pyasn1/pull/71/)  
[pr #70](https://github.com/pyasn1/pyasn1/pull/70/)
- Runtime deprecation of `tagMap` and `typeMap` aliases  
[pr #72](https://github.com/pyasn1/pyasn1/pull/72/)
- Fixed duplicated and missing declarations  
[pr #64](https://github.com/pyasn1/pyasn1/pull/64/)
- Cleaned documentation and comments  
[pr #63](https://github.com/pyasn1/pyasn1/pull/63/)
- Removed bdist\_wheel universal flag from setup.cfg  
[pr #69](https://github.com/pyasn1/pyasn1/pull/69/)

Revision 0.6.0, released 26-03-2024

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- Added support for previously missing `RELATIVE-OID` construct  
[pr #48](https://github.com/pyasn1/pyasn1/pull/48/)
- Updated link to Layman's Guide  
Now it provides a link to links to a formatted PDF version of the paper,  
at a stable domain (researchgate), using https  
[pr #50](https://github.com/pyasn1/pyasn1/pull/50/)
- Removed  
support for EOL Python 2.7, 3.6, 3.7  
[pr #56](https://github.com/pyasn1/pyasn1/pull/56/)

Revision 0.5.1, released 20-11-2023

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- Added support for PyPy 3.10 and Python 3.12  
[pr #32](https://github.com/pyasn1/pyasn1/pull/32/)
- Updated RTD configuration to include a dummy index.rst  
redirecting to contents.html, ensuring compatibility with  
third-party documentation and search indexes.

[pr #47](https://github.com/pyasn1/pyasn1/pull/47/)  
- Fixed the API breakage with `decoder.decode(substrateFun=...)`.

A `substrateFun` passed to `decoder.decode()` can now be either v0.4 Non-Streaming or v0.5 Streaming. `pyasn1` will detect and handle both cases transparently.

A `substrateFun` passed to one of the new streaming decoders is still expected to be v0.5 Streaming only.

[pr #30](https://github.com/pyasn1/pyasn1/pull/30/)

[pr #39](https://github.com/pyasn1/pyasn1/pull/39/)

Revision 0.5.0, released 19-04-2023

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- 
- Change `RealEncoder.supportIndefLenMode` type to a boolean  
[pr #21](https://github.com/pyasn1/pyasn1/pull/21/)
- Fix CI for py39 test environment  
[pr #25](https://github.com/pyasn1/pyasn1/pull/25/)
- Replace all `snmplabs.com` links  
[issue #4](https://github.com/pyasn1/pyasn1/issues/4)
- Use correct SPDX identifier for the license  
[pr #16](https://github.com/pyasn1/pyasn1/pull/16)
- Re-add `tagMap` and `typeMap` module level attributes to all encoder and decoder modules. They are aliases for `TAG_MAP` and `TYPE_MAP`, [issue #9](https://github.com/pyasn1/pyasn1/issues/9).
- Restore API for passing for `tagMap` and `typeMap` arguments to `Encoder` and `Decoder` classes by name and position, [issue #12](https://github.com/pyasn1/pyasn1/issues/12).
- Re-add `tagMap` and `typeMap` module level attributes to all encoder and decoder modules. They are aliases for `TAG_MAP` and `TYPE_MAP`, [issue #9](https://github.com/pyasn1/pyasn1/issues/9).
- 
- Restore API for passing for `tagMap` and `typeMap` arguments to `Encoder` and `Decoder` classes by name and position,
- Make BER/CER/DER decoders streaming and suspendible

The goal of this change is to make the decoder yielding on input data starvation and resuming from where it stopped whenever the caller decides to try again (hopefully making sure that some more input becomes available).

This change makes it possible for the decoder to operate on streams of data (meaning that the entire DER blob might not be immediately available on input).

On top of that, the decoder yields partially reconstructed ASN.1

object on input starvation making it possible for the caller to inspect what has been decoded so far and possibly consume partial ASN.1 data.

All these new feature are natively available through ``StreamingDecoder`` class. Previously published API is implemented as a thin wrapper on top of that ensuring backward compatibility.

- Added

support for Python 3.8, 3.9, 3.10, 3.11

- Removed support for EOL Pythons 2.4, 2.5, 2.6, 3.2, 3.3, 3.4, 3.5

- Added support for PyPy 3.7, 3.8, 3.9

- Modernized packaging and testing. pyasn1 now uses ``setup.cfg``, ``pyproject.toml``, [build](https://pypi.org/project/build/), and GitHub Actions.

- PyPI package ownership for ``pyasn1`` and ``pyasn1-module`` has been transferred to \*Christian Heimes\* and \*Simon Pichugin\* in [PyPI support ticket #2090](https://github.com/pypa/pypi-support/issues/2090).

- The upstream repositories for ``pyasn1`` and ``pyasn1-modules`` are now in the GitHub organization <https://github.com/pyasn1/>.

Revision 0.4.8, released 16-11-2019

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- Added ability of combining ``SingleValueConstraint`` and ``PermittedAlphabetConstraint`` objects into one for proper modeling ``FROM ... EXCEPT ...`` ASN.1 clause.

Revision 0.4.7, released 01-09-2019

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- Added ``isInconsistent`` property to all constructed types. This property conceptually replaces ``verifySizeSpec`` method to serve a more general purpose e.g. ensuring all required fields are in a good shape. By default this check invokes subtype constraints verification and is run by codecs on value de/serialisation.
- Deprecate ``subtypeSpec`` attributes and keyword argument. It is now recommended to pass ``ValueSizeConstraint``, as well as all other constraints, to ``subtypeSpec``.
- Fixed a design bug in a way of how the items assigned to constructed types are verified. Now if ``Asn1Type``-based object is assigned, its compatibility is verified based on having all tags and constraint objects as the type in field definition. When a bare Python value is assigned, then field type object is cloned and initialized with the bare value (constraints verification would run at this moment).
- Added ``WithComponentsConstraint`` along with related ``ComponentPresentConstraint`` and ``ComponentAbsentConstraint`` classes to be used with

`Sequence`/`Set` types representing  
`SET ... WITH COMPONENTS ...` like ASN.1 constructs.

Revision 0.4.6, released 31-07-2019

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- Added previously missing `SET OF ANY` construct encoding/decoding support.
- Added `omitEmptyOptionals` option which is respected by `Sequence` and `Set` encoders. When `omitEmptyOptionals` is set to `True`, empty initialized optional components are not encoded. Default is `False`.
- New elements to `SequenceOf`/`SetOf` objects can now be added at any position - the requirement for the new elements to reside at the end of the existing ones (i.e. `s[len(s)] = 123`) is removed.
- List-like slicing support added to `SequenceOf`/`SetOf` objects.
- Removed default initializer from `SequenceOf`/`SetOf` types to ensure consistent behaviour with the rest of ASN.1 types. Before this change, `SequenceOf`/`SetOf` instances immediately become value objects behaving like an empty list. With this change, `SequenceOf`/`SetOf` objects remain schema objects unless a component is added or `.clear()` is called.

This change can potentially cause incompatibilities with existing pyasn1 objects which assume `SequenceOf`/`SetOf` instances are value objects right upon instantiation.

The behaviour of `Sequence`/`Set` types depends on the `componentType` initializer: if on `componentType` is given, the behaviour is the same as `SequenceOf`/`SetOf` have. If `componentType` is given, but neither optional nor defaulted components are present, the created instance remains schema object, If, however, either optional or defaulted component is present, the created instance immediately becomes a value object.

- Added `.reset()` method to all constructed types to turn value object into a schema object.
- Added `PyAsn1UnicodeDecodeError`/`PyAsn1UnicodeDecodeError` exceptions to help the caller treating unicode errors happening internally to pyasn1 at the upper layers.
- Added support for subseconds CER/DER encoding edge cases in `GeneralizedTime` codec.
- Fixed 3-digit fractional seconds value CER/DER encoding of `GeneralizedTime`.
- Fixed `AnyDecoder` to accept possible `TagMap` as `asn1Spec` to make dumping raw value operational

Revision 0.4.5, released 29-12-2018

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- Debug logging refactored for more efficiency when disabled and



for more functionality when in use. Specifically, the global LOG object can easily be used from any function/method, not just from codec main loop as it used to be.

- More debug logging added to BER family of codecs to ease encoding problems troubleshooting.
- Copyright notice extended to the year 2019
- Fixed defaulted constructed SEQUENCE component initialization.

Revision 0.4.4, released 26-07-2018

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- Fixed native encoder type map to include all ASN.1 types rather than just ambiguous ones
- Fixed crash in `.prettyPrint` of ``Sequence`` and ``Set`` occurring at OPTIONAL components

Revision 0.4.3, released 23-05-2018

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- Copyright notice extended to the year 2018
- Fixed `GeneralizedTime.asDateTime` to perform milliseconds conversion correctly

Revision 0.4.2, released 23-11-2017

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- Fixed explicit tag splitting in chunked encoding mode at OctetString and BitString encoders

Revision 0.4.1, released 23-11-2017

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- ANY DEFINED BY clause support implemented
- Encoders refactored to take either a value (as ASN.1 object) or a Python value plus ASN.1 schema
- BitString decoder optimised for better performance when running on constructed encoding
- Constructed types' `.getComponentBy*()` methods accept the ``default`` parameter to return instead if schema object is to be returned
- Constructed types' `.getComponentBy*()` methods accept the ``instantiate`` parameter to disable automatic inner component instantiation
- The ASN.1 types' ``__repr__`` implementation reworked for better readability at the cost of not being ``eval``-compliant
- Most ASN.1 types' ``__str__`` magic methods (except for OctetString and character types) reworked to call `.prettyPrint()` rather than `.prettyPrint`` calling ``__str__`` as it was before. The intention is

to eventually deprecate `.prettyPrint()` in favor of `str()`.

The other related change is that `str()` of enumerations and boolean types will return string label instead of number.

- Fixed `Choice.clear()` to fully reset internal state of the object
- Sphinx documentation rearranged, simplified and reworded
- The `isValue` singleton is now the only way to indicate ASN.1 schema as opposed to ASN.1 schema instance. The legacy `None` initializer support has been removed.
- Changed `Null` object initialization behaviour: previous default value (`''`) is not set anymore. Thus `Null()` call produces a ASN.1 schema object, while `Null('')` - value object.
- Migrated all docs and references from SourceForge
- Imports PEP8'ed
- Fixed ASN.1 encoder not to omit empty substrate produced for inner component if the inner component belongs to the simple class (as opposed to constructed class)
- Fixed CER/DER encoders to respect tagged CHOICE when ordering SET components
- Fixed ASN.1 types not to interfere with the Pickle protocol
- Fixed Sequence/SequenceOf types decoding heuristics in schema-less decoding mode

Revision 0.3.7, released 04-10-2017

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- Fixed ASN.1 time types pickling/deepcopy'ing

Revision 0.3.6, released 21-09-2017

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- End-of-octets encoding optimized at ASN.1 encoders
- The `__getitem__`/`__setitem__` behavior of `Set/Sequence` and `SetOf/SequenceOf` objects aligned with the canonical Mapping and Sequence protocols in part
- Fixed crash in ASN.1 encoder when encoding an explicitly tagged component of a Sequence

Revision 0.3.5, released 16-09-2017

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- Codecs signatures unified and pass the options kwargs through the call chain
- Explicit tag encoding optimized to avoid unnecessary copying
- End-of-octets sentinel encoding optimized
- Refactored ASN.1 codecs properties to silently enforce proper length and chunk size encoding modes
- Fixed DER encoder to always produce primitive encoding

- Fixed crash at SequenceOf native decoder
- Fixed Real.prettyPrint() to fail gracefully on overflow
- Fixed a couple of crashes when debug mode is enabled

Revision 0.3.4, released 07-09-2017

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- Fixed Native encoder to handle SEQUENCE/SET objects without the componentType property
- Added missing component-less SEQUENCE/SET objects dict duck-typing support
- Fixed unnecessary duplicate tags detection at NameType.tagMap
- Fixed crash at SEQUENCE and SEQUENCE OF CER encoder when running in schemaless mode
- Fixed Character types instantiation from OctetString type -- double unicode decoding may have scrambled the data

Revision 0.3.3, released 27-08-2017

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- Improved ASN.1 types instantiation performance
- Improved BER/CER/DER decoder performance by not unconditionally casting substrate into str/bytes.
- Fixed exponential index size growth bug when building ambiguous NamedTypes tree
- Fixed constructed types decoding failure at BER codec if running in schema-less mode
- Fixed crash on prettyPrint'ing a SEQUENCE with no defined components
- Fixed SetOf ordering at CER/DER encoder
- Fixed crash on conditional binascii module import
- Fix to TagSet hash value build

Revision 0.3.2, released 04-08-2017

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- Fixed SequenceOf/SetOf types initialization syntax to remain backward compatible with pyasn1 0.2.\*
- Rectified thread safety issues by moving lazy, run-time computation into object initializer.
- Fixed .isValue property to return True for empty SetOf/SequenceOf objects
- Fixed GeneralizedTime/UTCTime CER/DER codecs to actually get invoked
- Fixed DER/CER encoders handling optional SEQUENCE/SET fields containing nested SEQUENCE/SET with optional fields.
- Fixed crash in SequenceOf/SetOf pretty printing and decoding (in some cases)
- Fixed documentation markup issues.

- ASN.1 types `__init__()`, `.clone()` and `.subtype()` signatures refactored into keyword arguments to simplify their signatures.
- ASN.1 types initialization refactored to minimize the use of relatively expensive `isNoValue()` call
- Lazily pre-populate list of values of Sequence/Set/Choice types
- NamedTypes comparison made more efficient
- More efficient constraints computation and code clean up
- The `__getitem__()` implementation of some ASN.1 types & tag object refactored for better performance
- BER/CER/DER value encoders refactored to produce either tuple of bytes or octet-stream depending on what is more optimal
- Reduced the frequency of expensive `isinstance()` calls
- Tag-related classes optimized, refactored into properties and documented.
- The NamedValues implementation refactored to mimic Python dict, its use in ASN.1 types refactored into properties and better documented.  
WARNING: this change introduces a deviation from original API.
- NamedType family of classes overhauled, optimized and documented.
- The ``componentType`` attribute of constructed ASN.1 types turned read-only on instances.
- Sequence/Set DER/CER/DER decoder optimized to skip the case of reordered components handling when not necessary.
- Tags and constraints-related getter methods refactored into read-only instance attributes.
- The `.hasValue()` method refactored into `.isValue` property. All ASN.1 objects now support them, not just scalars.
- The `Real.{isInfinity, isPlusInfinity, isMinusInfinity}` methods refactored into properties and renamed into `IsInf`, `IsPlusInf` and `isMinusInf`
- The end-of-octets type refactored to ensure it is a singleton.

#### Codecs

changed to rely on that for better performance.

- Codecs lookup made more efficient at BER/CER/DER decoder main loop by assigning ``typeId`` to every ASN.1 type, not just ambiguous ones.
- The `.getComponent*()` methods of constructed ASN.1 types changed to lazily instantiate underlying type rather than return ``None``.  
This should simplify its API as initialization like ``X[0][1] = 2`` becomes possible.

WARNING: this change introduces a deviation from the original API.

- The `.setComponent*()` methods of SetOf/SequenceOf types changed not to allow uninitialized "holes" inside the sequences of their components. They now behave similarly to Python lists.

WARNING: this change introduces a deviation from the original API.

- Default and optional components en/decoding of Constructed type

refactored towards better efficiency and more control.

- OctetsString and Any decoder optimized to avoid creating ASN.1 objects for chunks of substrate. Instead they now join substrate chunks together and create ASN.1 object from it just once.
- The GeneralizedTime and UTCTime types now support to/from Python datetime object conversion.
- Unit tests added for the `compat` sub-package.
- Fixed BitString named bits initialization bug.
- Fixed non-functional tag cache (when running Python 2) at DER decoder.
- Fixed chunked encoding restriction on DER encoder.
- Fixed SET components ordering at DER encoder.
- Fixed BIT STRING & OCTET STRING encoding to be always non-chunked (e.g. primitive) at DER encoder
- Fixed `compat.integer.from\_bytes()` behaviour on empty input.

Revision 0.2.3, released 25-02-2017

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- Improved SEQUENCE/SET/CHOICE decoding performance by maintaining a single shared NamedType object for all instances of SEQUENCE/SET object.
- Improved INTEGER encoding/decoding by switching to Python's built-in integer serialisation functions.
- Improved BitString performance by rebasing it onto Python int type and leveraging fast Integer serialisation functions.
- BitString type usability improved in many ways: for example bitshifting and numeric operation on BitString is now possible.
- Minor ObjectIdentifier type performance optimization.
- ASN.1 character types refactored to keep unicode contents internally (rather than serialised octet stream) and duck-type it directly.
- ASN.1 OctetString initialized from a Python object performs bytes() on it when running on Python 3 (used to do str() which is probably less logical).
- Missing support for NoValue.\_\_sizeof\_\_ added.
- Added checks to make sure SEQUENCE/SET components being assigned match the prototypes.
- Setter methods for constructed types consistently accept matchTags and matchConstraints flags to control the strictness of inner components compatibility verification. Previously, these checks were tied to verifyConstraints flag, now they are all independent.
- General documentation improvements here and there.
- Fix to \_\_reversed\_\_() magic to make it returning an iterator.
- Test suite simplified and unified.
- The \_\_all\_\_ variable added to most of the Python modules.
- The "test" directory renamed into "tests" not to collide with the "test" module.

- FIX TO A SECURITY WEAKNESS: define length only decoders could have successfully processed indefinite length serialisation.
- FIX TO A SECURITY WEAKNESS: canonical decoders (CER/DER) may have successfully consumed non-canonical variations of (otherwise valid) serialisation.
- Broken Enumerated subtyping fixed.

- FIX TO A SECURITY WEAKNESS: BER decoder improperly cached long tags.
- New "native" codec implemented to transform pyasn1 types to Python built-in types and back.
- Switched to new-style classes.
- Sphinx documentation added.
- BitString improvements:
  - \* simple string of binary digits is now supported as initializer
  - \* default str() yields string of binary digits (used to yield str(tuple()))
  - \* binValue and hexValue initializers added
  - \* .asNumbers(), .asOctets() and asInteger() representation added
- Components of constructed ASN.1 types can now be populated with uninitialized ASN.1 objects by assigning either noValue sentinel or setupComponent() function return in addition to now-legacy None sentinel. This should improve code readability.
- NoValue class improved to become a singleton and catch more kinds of access to it.
- Compatibility wrappers str2octs() and oct2strs() fixed to run over iso-8859-1 encoding.
- Integer changed to emit Real instance if division produces a float.
- True division operation now supported by Integer type.
- The \_\_contains\_\_(), \_\_reverse\_\_() methods implemented for container types
- Iterator protocol support implemented for all container types.
- Warning, warning, warning: this change may potentially affect backward compatibility when:
  - \* user class overrides \_\_getitem\_\_() without overriding \_\_iter\_\_()
  - \* when user code iterates over SEQUENCE object to get its components (now keys will be yielded)
- Almost complete Python list and dict protocols added to SequenceOf/SetOf and Sequence/Set respectively
- Fix to divmod operation implementation in Integer type.
- Fix to IntegerDecoder's precomputed value map on Python 3.
- Fix to base ASN.1 types to run in "unicode\_literals" mode.

- Fix to composite constraints "+" operands ordering (AbstractConstraintSet.\_\_radd\_\_)
- Fix to constraints merge in .subtype() -- on merge existing constraints are expanded to accommodate new constraints, not the other way round. When existing constraints are wrapped in ConstraintsIntersection composite, additional constraints being added on subtyping effectively further narrow the set of allowed values, which aligns well with the notion of subtyping.
- Fix to NamedTypes methods to handle .getTagMap() returning None
- Fix to Set/Sequence.setDefaultComponents() to return self
- Copyright notice added to non-trivial source code files.
- Author's email changed, copyright extended to 2017

Revision 0.1.9, released 28-09-2015

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- Wheel distribution format now supported.
- Extensions added to text files, CVS attic flushed.
- Fix to make uninitialized pyasn1 objects failing properly on hash().
- Fix to ObjectIdentifier initialization from unicode string.
- Fix to CER/DER Boolean decoder - fail on non single-octet payload.

Revision 0.1.8, released 22-06-2015

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- ObjectIdentifier codec fixed to work properly with arc 0 and arc 2 values.
- Explicit limit on ObjectIdentifier arc value size removed.
- Unicode initializer support added to OctetString type and derivatives.
- New prettyPrintType() abstract method implemented to base pyasn1 types to facilitate encoding errors analysis.
- The \_\_str\_\_() method implemented to Tag, TagSet and TagMap classes to ease encoding errors troubleshooting.
- Fix to SEQUENCE and SET types to give them their private componentTypes collection (which is a NamedTypes object) so that they won't collide in a MT execution environment.
- Missing T61String,ISO646String character types and ObjectDescriptor useful type added.
- Distribute is gone, switched to setuptools completely.
- Missing NamedValues.\_\_repr\_\_() added.
- The base.NoValue() class, that indicates uninitialized ASN.1 object, made public.
- The base.NoValue() class instances now support \_\_repr\_\_() what makes possible to perform repr() on uninitialized pyasn1 types objects.
- When comparing ASN.1 types, by-tag and/or by-constraints matching can now be performed with the isSuperTypeOf()/isSameTypeWith() optional flags.
- Constructed types now verify their consistency by invoking

isSameTypeWith(matchTags=True, matchConstraints=False) and  
isSuperTypeOf(matchTags=False, matchConstraints=True) for  
each of their

components rather than isSuperTypeOf() as it used to be. Constraints check  
could be enforced to isSameTypeWith() with the strictConstraints=True  
constructed classes attribute.

- Constructed types can now be initialized with new .setComponents() method  
which accepts both var-args and keyword-args. Default repr() modified to  
reflect this change.
- NamedTypes() and NamedValues() made comparable.
- Test coverage extended to cover pyasn1 types \_\_repr\_\_() function.
- The abs(Integer()) & abs(Real()) operation now returns respective pyasn1  
type, not a Python type.
- More Python magic methods implementations added to Integer & Real classes  
(e.g. \_\_pos\_\_, \_\_neg\_\_, \_\_round\_\_, \_\_floor\_\_, \_\_ceil\_\_, \_\_trunc\_\_)
- The Integer.\_\_invert\_\_ Python magic method implemented.
- The OctetString.\_\_int\_\_() and .\_\_float\_\_() magic methods implemented.
- Handle the case of null writer at Debug printer.
- BitString encoder/decoder performance improved.
- Built-in debugging is now based  
on Python logging module.
- Fix to NamedType.\_\_repr\_\_() to work properly.
- Fixes to \_\_repr\_\_() implementation of many built-in ASN.1 types to take into  
account all of their initializers such as tagSet, subtypeSpec etc.
- String typed float initializer to REAL type now supported.
- Float typed mantissa initializer to REAL type for base 2 added.
- Encoding bases 8 and 16 support for REAL type binary encoder added.
- More strict CER/DER encoders added for GeneralizedTime and UTCTime types.
- Asn1Item.hasValue() added to easily distinguish initialized ASN.1 objects  
from uninitialized ones (e.g. pure types).
- Fix to REAL type binary decoder to handle different bases and scale factor.
- Fix to TagSet.repr() to include [obsolete] baseTag information.
- Fix to broken REAL type decoding handling.
- Fix to BitString and OctetString decoders dealing with constructed  
encoding -- it used to be possible to embed other types in substrate.
- DER codec hardened not to tolerate indefinite length  
encoding/decoding.
- Fix to end-of-octest sentinel handling:  
  
+ require strict two-zeros sentinel encoding  
+ recognize EOO sentinel only when explicitly requested by caller  
of the decoder via allowEoo=True parameter (warning: API change)

Revision 0.1.7

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- License updated to vanilla BSD 2-Clause to ease package use  
(<https://opensource.org/licenses/BSD-2-Clause>).



- Test suite made discoverable by unittest/unittest2 discovery feature.
- Fix to decoder working on indefinite length substrate -- end-of-octets marker is now detected by both tag and value. Otherwise zero values may interfere with end-of-octets marker.
- Fix to decoder to fail in cases where tagFormat indicates inappropriate format for the type (e.g. BOOLEAN is always PRIMITIVE, SET is always CONSTRUCTED and OCTET STRING is either of the two)
- Fix to REAL type encoder to force primitive encoding form encoding.
- Fix to CHOICE decoder to handle explicitly tagged, indefinite length mode encoding
- 
- Fix to REAL type decoder to handle negative REAL values correctly. Test case added.

#### Revision 0.1.6

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- The compact (valueless) way of encoding zero INTEGERS introduced in 0.1.5 seems to fail miserably as the world is filled with broken BER decoders. So we had to back off the \*encoder\* for a while. There's still the IntegerEncoder.supportCompactZero flag which enables compact encoding form whenever it evaluates to True.
- Report package version on debugging code initialization.

#### Revision 0.1.5

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- Documentation updated and split into chapters to better match web-site contents.
- Make prettyPrint() working for non-initialized pyasn1 data objects. It used to throw an exception.
- Fix to encoder to produce empty-payload INTEGER values for zeros
- Fix to decoder to support empty-payload INTEGER and REAL values
- Fix to unit test suites imports to be able to run each from their current directory

#### Revision 0.1.4

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- Built-in codec debugging facility added
- Added some more checks to ObjectIdentifier BER encoder catching possible 2^8 overflow condition by two leading sub-OIDs
- Implementations overriding the AbstractDecoder.valueDecoder method changed to return the rest of substrate behind the item being processed rather than the unprocessed substrate within the item (which is usually empty).
- Decoder's recursiveFlag feature generalized as a user callback function

which is passed an uninitialized object recovered from substrate and its uninterpreted payload.

- Catch inappropriate substrate type passed to decoder.
- Expose tagMap/typeMap/Decoder objects at DER decoder to uniform API.
- Obsolete `__init__.MajorVersionId` replaced with `__init__.__version__` which is now in-sync with distutils.
- Package classifiers updated.
- The `__init__.py`'s made non-empty (rumors are that they may be optimized out by package managers).
- Bail out gracefully whenever Python version is older than 2.4.
- Fix to Real codec exponent encoding (should be in 2's complement form), some more test cases added.
- Fix in Boolean truth testing built-in methods
- Fix to substrate underrun error handling at ObjectIdentifier BER decoder
- Fix to BER Boolean decoder that allows other pre-computed values besides 0 and 1
- Fix to leading 0x80 octet handling in DER/CER/DER ObjectIdentifier decoder. See <https://www.esat.kuleuven.be/cosic/publications/article-1432.pdf>

#### Revision 0.1.3

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- Include class name into asn1 value constraint violation exception.
- Fix to OctetString.prettyOut() method that loses leading zero when building hex string.

#### Revision 0.1.2

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- Fix to `__long__()` to actually return longs on py2k
- Fix to OctetString.\_\_str\_\_() workings of a non-initialized object.
- Fix to quote initializer of OctetString.\_\_repr\_\_()
- Minor fix towards ObjectIdentifier.prettyIn() reliability
- ObjectIdentifier.\_\_str\_\_() is aliased to prettyPrint()
- Explicit repr() calls replaced with '%r'

#### Revision 0.1.1

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- Hex/bin string initializer to OctetString object reworked (in a backward-incompatible manner)
- Fixed float() infinity compatibility issue (affects 2.5 and earlier)
- Fixed a bug/typo at Boolean CER encoder.
- Major overhaul for Python 2.4 -- 3.2 compatibility:
  - + get rid of old-style types
  - + drop string module usage

- + switch to rich comparison
- + drop explicit long integer type use
- + map()/filter() replaced with list comprehension
- + apply() replaced with `\*/\**args`
- + switched to use 'key' sort() callback function
- + support both `__nonzero__()` and `__bool__()` methods
- + modified not to use py3k-incompatible exception syntax
- + getslice() operator fully replaced with getitem()
- + dictionary operations made 2K/3K compatible
- + base type for encoding substrate and OctetString-based types is now 'bytes' when running py3k and 'str' otherwise
- + OctetString and derivatives now unicode compliant.
- + OctetString now supports two python-neutral getters: `asOcts()` & `asInts()`
- + print OctetString content in hex whenever it is not printable otherwise
- + in test suite, implicit relative import replaced with the absolute one
- + in test suite, string constants replaced with numerics

#### Revision 0.0.13

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- Fix to base10 normalization function that loops on `univ.Real(0)`

#### Revision 0.0.13b

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- ASN.1 Real type is now supported properly.
- Objects of Constructed types now support `__setitem__()`
- Set/Sequence objects can now be addressed by their field names (string index) and position (integer index).
- Typo fix to `ber.SetDecoder` code that prevented with schema decoding operation.
- Fix to explicitly tagged items decoding support.
- Fix to `OctetString.prettyPrint()` to better handle non-printable content.
- Fix to `repr()` workings of Choice objects.

#### Revision 0.0.13a

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- Major codec re-design.
- Documentation significantly improved.
- ASN.1 Any type is now supported.
- All example ASN.1 modules moved to separate `pyasn1-modules` package.
- Fix to initial sub-OID overflow condition detection an encoder.
- BitString initialization value verification improved.
- The `Set/Sequence.getNameByPosition()` method implemented.
- Fix to proper behaviour of `PermittedAlphabetConstraint` object.

- Fix to improper Boolean substrate handling at CER/DER decoders.
- Changes towards performance improvement:
  - + all dict.has\_key() & dict.get() invocations replaced with modern syntax (this breaks compatibility with Python 2.1 and older).
  - + tag and tagset caches introduced to decoder
  - + decoder code improved to prevent unnecessary pyasn1 objects creation
  - + allow disabling components verification when setting components to structured types, this is used by decoder whilst running with schema mode.
  - + BER decoder for integer values now looks up a small set of pre-computed substrate values to save on decoding.
  - + a few pre-computed values configured to ObjectIdentifier BER encoder.
  - + ChoiceDecoder split-off SequenceOf one to save on unnecessary checks.
  - + replace slow hasattr()/getattr() calls with isinstance() introspection.
  - + track the number of initialized components of Constructed types to save on default/optional components initialization.
  - + added a shortcut ObjectIdentifier.asTuple() to be used instead of \_\_getitem\_\_() in hotspots.
  - + use Tag.asTuple() and pure integers at tag encoder.
  - + introduce and use in decoder the baseTagSet attribute of the built-in ASN.1 types.

#### Revision 0.0.12a

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- The individual tag/length/value processing methods of encoder.AbstractItemEncoder renamed (leading underscore stripped) to promote overloading in cases where partial substrate processing is required.
- The oasp.py, ldap.py example scripts added.
- Fix to univ.ObjectIdentifier input value handler to disallow negative sub-IDs.

#### Revision 0.0.11a

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- Decoder can now treat values of unknown types as opaque OctetString.
- Fix to Set/SetOf type decoder to handle uninitialized scalar SetOf components correctly.

#### Revision 0.0.10a

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- API versioning mechanics retired (pyasn1.v1 -> pyasn1) what makes it possible to zip-import pyasn1 sources (used by egg and py2exe).

#### Revision 0.0.9a

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- Allow any non-zero values in Boolean type BER decoder, as it's in accordance with the standard.

#### Revision 0.0.8a

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- Integer.\_\_index\_\_() now supported (for Python 2.5+).
- Fix to empty value encoding in BitString encoder, test case added.
- Fix to SequenceOf decoder that prevents it skipping possible Choice typed inner component.
- Choice.getName() method added for getting currently set component name.
- OctetsString.prettyPrint() does a single str() against its value eliminating an extra quotes.

#### Revision 0.0.7a

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- Large tags (>31) now supported by codecs.
- Fix to encoder to properly handle explicitly tagged untagged items.
- All possible value lengths (up to  $256^{126}$ ) now supported by encoders.
- Fix to Tag class constructor to prevent negative IDs.

#### Revision 0.0.6a

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- Make use of setuptools.
- Constraints derivation verification (isSuperTypeOf()/isSubTypeOf()) fixed.
- Fix to constraints comparison logic -- can't cmp() hash values as it may cause false positives due to hash conflicts.

#### Revision 0.0.5a

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- Integer BER codec reworked fixing negative values encoding bug.
- clone() and subtype() methods of Constructed ASN.1 classes now accept optional cloneValueFlag flag which controls original value inheritance. The default is \*not\* to inherit original value for performance reasons (this may affect backward compatibility). Performance penalty may be huge on deeply nested Constructed objects re-creation.
- Base ASN.1 types (pyasn1.type.univ.\*) do not have default values anymore. They remain uninitialized acting as ASN.1 types. In

this model, initialized

ASN.1 types represent either types with default value installed or a type instance.

- Decoders' prototypes are now class instances rather than classes. This is to simplify initial value installation to decoder's prototype value.
- Bugfix to BitString BER decoder (trailing bits not regarded).
- Bugfix to Constraints use as mapping keys.
- Bugfix to Integer & BitString clone() methods
- Bugfix to the way to distinguish Set from SetOf at CER/DER SetOfEncoder
- Adjustments to make it running on Python 1.5.
- In tests, substrate constants converted from hex escaped literals into octals to overcome indefinite hex width issue occurring in young Python.
- Minor performance optimization of TagSet.isSuperTagSetOf() method
- examples/sshkey.py added

Revision 0.0.4a

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- \* Asn1Type.prettyPrinter() -> \\*.prettyPrint()

Revision 0.0.3a

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- \* Simple ASN1 objects now hash to their Python value and don't depend upon tag/constraints/etc.
- \* prettyIn & prettyOut methods of SimpleAsn1Object become public
- \* many syntax fixes

Revision 0.0.2a

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- \* ConstraintsIntersection.isSuperTypeOf() and ConstraintsIntersection.hasConstraint() implemented
- \* Bugfix to NamedValues initialization code
- \* +/- operators added to NamedValues objects
- \* Integer.\_\_abs\_\_() & Integer.subtype() added
- \* ObjectIdentifier.prettyOut() fixes
- \* Allow subclass components at SequenceAndSetBase
- \* AbstractConstraint.\_\_cmp\_\_() dropped
- \* error.Asn1Error replaced with error.PyAsn1Error

Revision 0.0.1a

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- \* Initial public alpha release

Found in path(s):

\* /pyasn1-0-6-2-tar-gz/pyasn1-0.6.2/CHANGES.rst

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

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/opt/cola/permits/2867977048\_1769137435.2692108/0/pyasn1-0-6-2-tar-gz/pyasn1-0.6.2/README.md

/opt/cola/permits/2867977048\_1769137435.2692108/0/pyasn1-0-6-2-tar-gz/pyasn1-0.6.2/docs/source/contents.rst..

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/opt/cola/permits/2867977048\_1769137435.2692108/0/pyasn1-0-6-2-tar-gz/pyasn1-

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0.6.2/pyasn1/codec/native/encoder.py#

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0.6.2/pyasn1/codec/streaming.py#

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0.6.2/pyasn1/compat/integer.py#

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/opt/cola/permits/2867977048\_1769137435.2692108/0/pyasn1-0-6-2-tar-gz/pyasn1-0.6.2/pyasn1/type/base.py#

/opt/cola/permits/2867977048\_1769137435.2692108/0/pyasn1-0-6-2-tar-gz/pyasn1-0.6.2/pyasn1/type/char.py#

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/opt/cola/permits/2867977048\_1769137435.2692108/0/pyasn1-0-6-2-tar-gz/pyasn1-0.6.2/tests/type/test\_univ.py#  
/opt/cola/permits/2867977048\_1769137435.2692108/0/pyasn1-0-6-2-tar-gz/pyasn1-0.6.2/tests/type/test\_useful.py#

Found  
in path(s):  
\*



# 1.199 iproute 6.18.0

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# 1.201 open-vm-tools 13.0.5

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base64.c -- routines to encode/decode base64 data

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```
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* httpd@ncsa.uiuc.edu
*
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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)

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

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class="warning"><strong>Notice:</strong><br

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documentation or server, and may be removed by our moderators if they are either implemented or considered  
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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">
<p class="apache">Copyright 2025 The Apache Software Foundation.<br />Licensed under the <a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
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## 1.206 sysv-init 3.15

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

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

You should also

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

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

That's all there is to it!

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# vi: set ft=:  
VIM-LICENS

I) Det finns inga begränsningar för distribution av ofrödrade kopior av Vim frötom att de mste innehålla denna licenstext. Du kan ocks distribuera ofrödrade delar av Vim, likas utan begränsningar frötom att de mste innehålla denna licenstext. Du fr ocks inkludera krbara filer som du har skapat fr de ofrödrade Vim-klorna, samt dina egna anvöndningsexempel och Vim-skript.

II) Det r tilltet att distribuera en modifierad (eller utkad) version av Vim, inklusive krbara filer och/eller kllkod, nr fljande fyra villkor r uppfyllda:

- 1) Denna licenstext mste inkluderas ofrödrad.
- 2) Den modifierade Vim mste distribueras p ett av fljande fem stt:
  - a) Om du sjlv gröndringar i Vim mste du tydligt beskriva distributionen hur man kan kontakta dig. Nr underhållaren ber dig (p ngot stt) om en kopia av den modifierade Vim du distribuerat, mste du mste du gra dina öndringar, inklusive kllkoden, tillgöngliga fr underhållaren

utan kostnad. Underhållaren frbehåller sig rttten att inkludera dina öndringar i den officiella versionen av Vim. Vad underhållaren kommer att gra med dina öndringar och under vilken licens de kommer att distribueras r frhandlingsbart. Om ingen frhandling har gt rum gller denna licens, eller en senare version, ven fr dina öndringar.

De nuvarande underhållarna finns listade här: <https://github.com/orgs/vim/people>.

Om detta ändras kommer det att meddelas på lämpliga platser (troligen vim.sf.net, www.vim.org och/eller comp.editors). När det är helt omöjligt att kontakta underhållaren upphör skyldigheten att skicka dina ändringar upphör. När underhållaren har bekräftat att han har mottagit dina ändringar behöver de inte skickas igen.

- b) Om du har fått en modifierad Vim som distribuerats enligt nämnda under a) får du distribuera den vidare oförändrat, enligt vad som anges i I). Om du

ger ytterligare ändringar gäller

gäller texten under a) för dessa ändringar.

- c) Tillhandahåll alla ändringar, inklusive källkod, med varje kopia av den modifierade Vim du distribuerar. Detta kan göras i form av en kontextdiff. Du kan välja vilken licens du vill använda för ny kod som du lägger till. Ändringarna och deras licens för inte hindra andra från att göra egna ändringar i den officiella versionen av Vim.

- d) När du har en modifierad Vim som innehåller ändringar enligt under c), kan du distribuera den utan källkoden för ändringarna om följande tre villkor är uppfyllda:

- Licensen som gäller för ändringarna tillåter dig att distribuera ändringarna till Vim-underhållaren utan avgift eller begränsningar, och tillåter Vim-underhållaren att inkludera ändringarna i den officiella versionen av Vim utan avgift eller begränsningar.
- Du behåller ändringarna i minst tre år efter senaste distribution av motsvarande modifierade Vim. När underhållaren eller någon som du distribuerat den modifierade Vim till ber dig (personligt eller via e-post) om ändringarna inom denna period måste du göra dem tillgängliga för honom.
- Du beskriver tydligt i distributionen hur man kan kontakta dig. Denna kontaktinformationen måste vara giltig i minst tre år efter den sista distributionen av motsvarande modifierade Vim, eller så länge som möjligt.

- e) När GNU General Public License (GPL) gäller för ändringarna, kan du distribuera den modifierade Vim under GNU GPL version 2 eller någon senare version.

- 3) Ett meddelande måste läggas till, tminstone i utdata från kommandot ":version" och i introduktionsskrmen, så att användaren av den modifierade Vim kan se att den har modifierats. Vid distribution enligt under 2)e) krävs det endast att meddelandet läggas till i den mån detta inte

strider mot den licens som används för ändringarna.

- 4) Kontaktinformationen som krävs enligt 2)a) och 2)d) får inte tas bort eller ändras, frutom att personen själv kan göra korrigeringar.

III) Om du distribuerar en modifierad version av Vim uppmuntras du att använda Vim-licensen för dina ändringar och göra dem tillgängliga för underhållaren, inklusive källkoden. Det bästa stödet att göra detta är



via e-post eller genom att ladda upp filerna till en server och e-posta URL:en.  
Om antalet ndringar r litet (t.ex. en modifierad Makefile) rcker det att skicka ett  
kontextdiff. E-postadressen som ska anvndas r  
<maintainer@vim.org>

IV) Det r inte tilltet att ta bort denna licens frn distributionen av Vim  
kllkoden, delar av den eller frn en modifierad version. Du fr anvnda denna  
licensen fr tidigare Vim-utgvor istllet fr den licens som de levererades med  
med, om du s nskar.

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FROM,  
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## LICENZA VIM

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

I) Non ci sono restrizioni alla distribuzione di copie non modificate di Vim, alla condizione che esse includano il testo di questa licenza. Si possono anche distribuire parti non modificate di Vim, sempre senza restrizioni, alla condizione che esse includano il testo di questa licenza. anche consentito includere programmi eseguibili da voi preparati a partire dai file sorgenti Vim non modificati, pi i vostri esempi di utilizzo e i vostri script Vim.

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

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

2) La versione modificata di Vim

dev'essere distribuita in una della

seguenti cinque maniere:

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

I manutentori correnti sono elencati qui:

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

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

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

modifiche, il testo al punto a) si applica a queste modifiche.

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

il contesto [ossia anche le linee non modificate di sorgente

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

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

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

dopo che avrete distribuito per l'ultima volta il Vim modificato

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

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

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

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

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

III) Se distribuite una versione modificata di Vim, siete incoraggiati a utilizzare la licenza Vim per le vostre modifiche, e a mettere le modifiche a disposizione del manutentore, compreso il codice sorgente. Il modo preferito in cui fare questo tramite e-mail o caricando

i file su un server ed inviandone l'indirizzo (URL) tramite e-mail.  
Se il numero di modifiche è piccolo (per esempio, una modifica a un Makefile) inviare tramite email l'output del comando diff con contesto  
pu essere sufficiente. L'indirizzo e-mail da utilizzare  
<maintainer@vim.org>

IV) Non consentito rimuovere questa licenza dalla distribuzione dei codici sorgente Vim, anche in parte, o da una versione di Vim modificata.  
Potete usare questa licenza per precedenti versioni di Vim, invece della licenza con cui esse sono state distribuite, a vostra scelta.

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- I) Não há restrições para distribuir cópias não modificadas do Vim, exceto que elas devem incluir este texto de licença. Você também pode distribuir partes não modificadas do Vim, igualmente irrestritas, exceto que elas devem incluir este texto de licença. Você também tem permissão para incluir executáveis que você fez a partir das fontes não modificadas do Vim, além de seus próprios exemplos de uso e scripts do Vim.
- II) permitido distribuir uma versão modificada (ou estendida) do Vim, incluindo executáveis e/ou código-fonte, quando as quatro condições a seguir forem atendidas:
- 1) Este texto de licença deve ser incluído sem modificações.
  - 2) O Vim modificado deve ser distribuído de uma das cinco formas a seguir:
    - a) Se você fizer alterações no Vim, deve descrever claramente na distribuição como entrar em contato com você. Quando o mantenedor solicitar a você (de qualquer forma) uma cópia do Vim modificado que você distribuiu, você deve disponibilizar suas alterações, incluindo o código-fonte, ao mantenedor sem taxa. O mantenedor reserva o direito de incluir suas alterações na versão oficial do Vim. O que o mantenedor fará com suas alterações e sob qual licença elas serão distribuídas negociável. Se não houve negociação nesta licença, ou uma versão posterior, também se aplica às suas alterações. Os mantenedores atuais estão listados aqui: <https://github.com/orgs/vim/people>. Se isso mudar, será anunciado em lugares apropriados (provavelmente [vim.sf.net](http://vim.sf.net), [www.vim.org](http://www.vim.org) e/ou [comp.editors](mailto:comp.editors)). Quando for completamente impossível contatar o mantenedor, a obrigação de enviar a ele suas alterações cessa. Uma vez que o mantenedor tenha confirmado que ele recebeu suas alterações, elas não precisam ser enviadas novamente.
    - b) Se você recebeu um Vim modificado que foi distribuído como mencionado em a), você tem permissão para distribuí-lo sem modificações, como mencionado em I). Se você fizer alterações adicionais, o texto em a) se aplica a essas alterações.
    - c) Forneça todas as alterações, incluindo o código-fonte, com cada cópia

do Vim modificado que voc distribuir. Isso pode ser feito na forma de um diff de contexto. Voc pode escolher qual licena usar para o novo cdigo que voc adicionar. As alteraes e sua licena no devem restringir outros de fazer suas prprias alteraes na verso oficial do Vim.

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

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

restrio.

- Voc mantm as alteraes por pelo menos trs anos aps a ltima distribuio do Vim modificado correspondente. Quando o mantenedor ou algum para quem voc distribuiu o Vim modificado solicitar a voc (de qualquer forma) as alteraes dentro deste perodo, voc deve disponibiliz-las a ele.
- Voc descreve claramente na distribuio como entrar em contato com voc. Estas informaes de contato devem permanecer vlidas por pelo menos trs anos aps a ltima distribuio do Vim modificado correspondente, ou pelo maior tempo possvel.

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

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

Ao distribuir

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

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

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

IV) No permitido remover esta licena da distribuio das fontes do Vim, partes dela ou de uma verso modificada. Voc pode usar esta licena para verses anteriores

do Vim em vez da licena com a qual elas vieram,  
a seu critrio.

Contributors to the EditorConfig Vim Plugin:

Hong Xu

Trey Hunner

Kent Frazier

Chris White

VIM LICENSE

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

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

- 1) This license text must be included unmodified.
- 2) The modified Vim must be distributed in one of the following five ways:

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

to the

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

- b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.
    - c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.
    - d) When you have a modified Vim which includes changes as mentioned



under c), you can distribute it without the source code for the changes if the following three conditions are met:

- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

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

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

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

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

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/\*

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 : VIM

VIM

I) Vim  
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II) () Vim  
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Vim :  
     <https://github.com/orgs/vim/people>  
     ( vim.sf.netwww.vim.org  
     / comp.editors)

b) Vim a)

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Makefile) (context diff)

<maintainer@vim.org>

IV) Vim

Vim

\*uganda.txt\* For Vim version 9.1. Last change: 2026 Jan 07

VIM REFERENCE MANUAL by Bram Moolenaar

\*uganda\* \*Uganda\* \*copying\* \*copyright\* \*license\*

SUMMARY

\*Kuwasha\*

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 Kuwasha web site, available at the following URL:

<https://www.kuwasha.net>

You can also sponsor the development of Vim, see [|sponsor|](#). The money goes to Uganda anyway.

\*iccf\* \*ICCF\*

ICCF Holland and Kuwasha~

[|Bram|](#) Moolenaar's charity, ICCF Holland, has long supported the education of children in Uganda through the Kibaale Children's Centre. Following Bram's passing in 2023, ICCF Holland transferred all activities to its sister charity Kuwasha in Canada and dissolved at the end of 2025.

Donations from Vim users are still welcome and will continue to go directly to Uganda. To continue supporting this cause, please send contributions to Kuwasha.

License~

The Open Publication License applies to the Vim documentation, see [|manual-copyright|](#).

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

=== begin of license ===

## VIM LICENSE

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

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

- 1) This license text must be included unmodified.
- 2) The modified Vim must be distributed in one of the following five ways:
  - a) If you make changes to Vim yourself, you must clearly describe in

the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes.

The current maintainers are listed here:

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

If this changes it will be announced in appropriate

places (most

likely [vim.sf.net](http://vim.sf.net), [www.vim.org](http://www.vim.org) and/or [comp.editors](http://comp.editors)). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

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

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute

it without the source code for the

changes if the following three conditions are met:

- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU

GPL version 2 or

any later version.

3) A message must be added, at least in the output of the ":version"

command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

- 4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

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<maintainer@vim.org>

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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.
- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.
- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED\_BY define.

- This license applies to the source code of Vim. However, different license conditions may apply to some runtime files included with Vim; these will be specified in the header of each respective file.

=====

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

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

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

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

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

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

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

Summer 1994 to summer 1995 Bram spent a whole year at the centre, working as a volunteer. Bram helped to expand the centre and worked in the area of water and sanitation. Bram learned that the help that the KCC provides really helps. When Bram came back to Holland, he wanted to continue supporting KCC. To do this he has been raising funds and organizing the sponsorship program.

How do you know that the money will be spent right? First of all you have the personal guarantee of Bram as the author of Vim, who knew the people working at the centre 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. Bram has visited the centre many times, starting in 1993. The visit reports are have been shared on the ICCF web site (may no longer be available).

If you have any further questions, send an e-mail: [info@kuwasha.net](mailto:info@kuwasha.net).

The address of the centre is:  
Kibaale Children's Centre  
p.o. box 1658  
Masaka, Uganda, East Africa

**\*donate\***

Sending money:

Check the Kuwasha web site for the latest information!

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.

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:  
[info@kuwasha.net](mailto:info@kuwasha.net)

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



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## 1.211 nss-pam-Idapd 265

### 1.211.1 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.]

Preamble

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under

copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally

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a

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

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

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

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

must be

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

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

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

Section 6 states terms for distribution of such executables.

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

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

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

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

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



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

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is

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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

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

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

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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.

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

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

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

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

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

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```

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

```
/* We could have used an enumeration here but it just makes it more
difficult for the compiler to generate a call to this. These are
```



```

used as arguments to the function __VLTChangePermission, declared
below. */
#define __VLTP_READ_ONLY 0
#define __VLTP_READ_WRITE 1

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

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

```

```

#endif /* __VTV_H__ */

```

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## 1.215 syslog-ng 4.11.0

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

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

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```

```
#define SYSLOG_NG_LICENSE_H_INCLUDED
```

```
1
```

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

```
extern GOptionEntry license_options[];
```

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

```
#endif
```

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Version 2, June 1991

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```
#####
# generated files are ignored                                #
#####
                                ignore
\ctags
\mailmap
scl/syslogconf/convert-syslogconf.awk$
.*/*.*.am$
.*\.(ql|yaml|md|y|l|txt|xml|xsd|log|key|crt|files|in|conf|.example|gradle|mk|supp|sub|guess|list|pc|.cmake)$
\..*rc$
.*[/^]+-grammar\[ch]$
(.*)?(README|\.gitignore|pylintrc)$
lib/ivykis
lib/eventlog
modules/java/org_syslog_ng\[^/_-]+\h$
modules/(afmongodb|afamqp)/dummy\.c$
modules/kafka/tests/sample\.properties
modules/grpc/protos/opentelemetry-proto
modules/grpc/protos/grafana-loki
modules/grpc/protos/googleapis-proto
modules/grpc/protos/clickhouse-proto
modules/cloud-auth/jwt-cpp
dev-utils/plugin_skeleton_creator/plugin_template.*
(lib|modules)/.*\.conf$
dist\.conf$
.*\^\.gradle
```

```

scl/syslog-ng\conf$
docker/syslog-ng\conf$
tests/copyright/policy$
(syslog-ng-)?config\.h$
lib/cfg-lex\.[ch]$
tgz2build
autom4te\cache
m4
Mk
.*\.(a|bin|class|css|dirstamp|html|idx|jar|js|o|la|lai|lo|MF|persist|Plo|Po|pc|pyc|so|so\.\0\.\0|soT|spec|trs)$
(.*)?Makefile$
doc/man
(_configs\.sed|\.project\.cproject|config\.status)$
stamp-h1$
tests/functional/test\conf$
scripts/update-patterndb$
(contrib|debian)
packaging/debian
packaging/debian/(man|source)
packaging/rhel
packaging/package-indexer/(Dockerfile|example-cfg\.yml|pyproject\.toml)$
packaging/package-indexer/indexer/apt_conf/*\conf$
doc/ChangeLog\.[0-9]$
(\.gitmodules|AUTHORS|COPYING|INSTALL|VERSION|aclocal\.m4|compile|configure|depcomp|install-
sh|libtool|ltmain\.sh|missing|test-driver|ylwrap)$
.*[/^\.]*$
GPATH|GTAGS|GRTAGS|GSYMS
dbld/build/*$
dbld/release/*$
dbld/install/*$
dbld/images/*$
dbld/(functions\.sh|(build|packages|pip_packages)\.manifest|tarball-changes\.ignore)$
dbld\.\dockerignore$
cmake/*$
tests/light/pytest.ini
tests/light/tox.ini
tests/light/.pre-commit-config.yaml
.github/workflows/*$
lib/logmsg/tests/messages/syslog-ng-(pe-)?[0-9]*-msg.h$
modules/python-modules/requirements\lock
scl/darwinosl/darwinosl-metadata-db.csv
lib/multi-line/smart-multi-line\fsms$
.editorconfig

#####
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```

#####

  GPLv2.1+\_SSL,non-balabit

cmake/Modules/FindLIBBPF\cmake  
lib/timeutils/zonecache.[ch]\$  
modules/secure-logging  
modules/secure-logging/tests  
modules/secure-logging/slogencrypt  
modules/secure-logging/slogverify  
modules/secure-logging/slogkey  
lib/compat/cpp-(start|end).\h\$  
lib/compat/curl.\h\$  
lib/compat/getline.\c\$  
lib/compat/json.\h\$  
lib/filter/filter-blank\.[ch]\$  
lib/filter/tests/test\_filter\_blank\c\$  
lib/healthcheck  
lib/healthcheck/tests  
lib/file-monitor\.[ch]  
lib/cfg-source\.[ch]  
lib/metrics-pipe\.[ch]  
lib/metrics/label-template\.(c|h)\$  
lib/metrics/dyn-metrics-template\.(c|h)\$  
lib/metrics/dyn-metrics-store\.(c|h)\$  
lib/metrics/dyn-metrics-cache\.(c|h)\$  
lib/metrics/metrics\.(c|h)\$  
lib/rewrite/rewrite-set-facility\h  
lib/rewrite/rewrite-set-matches\.[ch]  
lib/rewrite/rewrite-unset-matches\.[ch]  
lib/rewrite/tests/test\_set\_matches\c  
lib/rewrite/tests/test\_set\_facility\c  
lib/rewrite/tests/test\_set\_tag\c  
lib/rewrite/rewrite-set-pri\h  
lib/rewrite/rewrite-set-pri\c  
lib/stats/stats-cluster-key-builder\.[ch]  
lib/stats/stats-prometheus\c  
lib/stats/stats-prometheus\h  
lib/stats/stats-compatible\h  
lib/stats/tests/test\_stats\_prometheus\c  
lib/stats/tests/test\_stats\_cluster\_key\_builder\c  
lib/timeutils/timeutils\h  
lib/stackdump\.[ch]  
lib/logscheduler\.[ch]  
lib/logscheduler-pipe\.[ch]  
lib/logmsg/tests/dump\_logmsg\c  
lib/multi-line/smart-multi-line\.[ch]  
lib/multi-line/tests/test\_smart\_multi\_line\c  
libtest/mock-logpipe\.[ch]



```

lib/generic-number\[.ch]
lib/tests/test_generic_number\.c
lib/severity-aliases\.table
lib/transport/transport-adapter\[.ch]
lib/transport/transport-globals\[.ch]
syslog-ng-ctl/commands/log-level.[ch]
syslog-ng-ctl/commands/attach.[ch]
modules/afsocket/afsocket-signals.h
syslog-ng-ctl/commands/healthcheck.[ch]
modules/python-modules/syslogng/configgen\.py
modules/python-modules/syslogng/dest\.py
modules/python-modules/syslogng/logger\.py
modules/python-modules/syslogng/message\.py
modules/python-modules/syslogng/parser\.py
modules/python-modules/syslogng/reloc\.py
modules/python-modules/syslogng/template\.py
modules/python/python-configgen\[.ch]
lib/tests/test_logscheduler\.c
lib/logproto/logproto-auto-server\[.ch]
lib/transport/transport-factory-haproxy\[.ch]
lib/transport/tests/test_transport\.c

#####
#
# These tests are GPLd even though they reside under lib/ and are excluded
# from the LGPL declaration of lib/ below.
#####
                                GPLv2+_SSL
lib/tests/test_clone_logmsg\.c
lib/tests/test_dnscache\.c
lib/tests/test_findcrlf\.c
lib/tests/test_hostid\.c
lib/tests/test_logwriter\.c
lib/tests/test_matcher\.c
lib/tests/test_msgparse\.c
lib/tests/test_ringbuffer\.c
lib/tests/test_serialize\.c
lib/tests/test_thread_wakeup\.c
lib/tests/test_zone\.c

#####
# These files are LGPLd, they are intended to be reusable.
#####
                                LGPLv2.1+_SSL
autogen\.sh$
sub-configure\.sh$
configure\.ac$
Makefile\.am$

```

```

lib/(compat|str-repr|timeutils|control|debugger|filter|logproto|multi-
line|parser|rewrite|stats|template|tests|transport|logmsg|value-pairs|secret-storage|logthrddest|logthrsouce|ack-
tracker|signal-slot-connector|[/]*$)
lib/scanner/(csv-scanner|list-scanner|kv-scanner|xml-scanner|[/]*$)
libtest
syslog-ng(-ctl)?
modules/java-modules/common
modules/java/(native|proxies|src)
modules/native
modules/http/http-signals.h
modules/http/compression\[.ch]
tests/loggen
persist-tool
modules/python-modules/syslogng/_init_.py
modules/python-modules/syslogng/persist.py
modules/python-modules/syslogng/source.py
modules/python/python-startup.(c|h)$
modules/python/python-global.(c|h)$

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#
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#####
GPLv2+_SSL,non-balabit
modules/diskq/tests/test_diskq_counters.c
modules/http/http-plugin\[.ch]
modules/http/http-parser.h
modules/timestamp/rewrite-.*$
modules/timestamp/tf-format-date.*$
modules/timestamp/tests/test_format_date.*$
modules/add-contextual-data/add-contextual-data-glob-selector\[.ch]$
modules/add-contextual-data/tests/test_glob_selector.c$
modules/affile/tests/test_file_writer.c$
modules/affile/stdout\[.ch]
modules/afsocket/socket-options-unix\[.ch]$
modules/basicfuncs/vp-funcs\[.ch]$
modules/basicfuncs/tf-tag.c$
modules/diskq/diskq-global-metrics\[.ch]$
modules/diskq/tests/test_logqueue_disk.c$
modules/metrics-probe/metrics-probe(|-parser|-plugin|-grammar)\.(c|h|ym)$
modules/metrics-probe/tests/test_metrics_probe.c$
modules/darwinosl/darwinosl(|-parser|-plugin|-grammar|-source|-source-oslog|-source-persist)\.(c|h|m|ym)$
modules/kafka/kafka(|-source-driver|-source-worker|-source-persist)\.(c|h)$
modules/grpc/otel/otel-(grammar|parser|plugin|source|source-services|servicecall|protobuf-parser|protobuf-
formatter|dest|dest-worker|logmsg-handles)\.(c|h|cpp|hpp|ym)$
modules/grpc/otel/grpc-credentials-builder\.(h|cpp|hpp)$
modules/grpc/otel/syslog-ng-otlp-(dest|dest-worker)\.(h|cpp|hpp)$
modules/grpc/otel/tests/test-otel-(protobuf-parser|protobuf-formatter)\.cpp$

```

modules/grpc/otel/tests/test-syslog-ng-otlp\\*.cpp\$  
modules/grpc/loki  
modules/grpc/bigquery  
modules/grpc/pubsub  
modules/grpc/clickhouse  
modules/grpc/common  
modules/grpc/protos/apphook\.(cpp|h)\$  
modules/cloud-auth/cloud-auth(|-grammar|-parser|-plugin)\.(c|h|cpp|hpp|ym)\$  
modules/cloud-auth/google-auth\.(h|cpp|hpp)\$  
modules/cloud-auth/azure-auth\.(h|cpp|hpp)\$  
modules/cloud-auth/oauth2-auth\.(h|cpp|hpp)\$  
modules/examples/inner-destinations/tls-test-validation  
modules/examples/sources/random-choice-generator  
modules/python/python-options.(c|h)\$  
modules/python/python-reloc\.(c|h)\$  
modules/python/python-binding.(c|h)\$  
modules/python/python-flags.(c|h)\$  
modules/python/tests/test\_python\_options.c\$  
modules/python/tests/test\_python\_reloc.c\$  
scl/fortigate/.\*\.conf\$  
scl/cee/.\*\.conf\$  
scl/elasticsearch/elastic-datastream.conf\$  
scl/logscale/logscale\\*.conf\$  
scl/mariadb/.\*\.conf\$  
scl/python/python-modules\\*.conf\$  
scl/darwinosl/plugin\\*.conf\$  
scl/splunk/splunk\\*.conf\$  
scl/google/google-pubsub\\*.conf\$  
scl/azure/azure-monitor\\*.conf\$  
scl/openobserve/.\*\.conf\$  
scl/pgsql/pgsql\\*.conf\$  
scl/qbittorrent/qbittorrent\\*.conf\$  
scl/pihole/pihole\\*.conf\$  
scl/jellyfin/jellyfin\\*.conf\$  
scl/arr/arr\\*.conf\$  
modules/python-modules/syslogng/modules/kubernetes/.\*  
modules/ebpf/.\*  
modules/python-modules/syslogng/modules/hypr/.\*  
modules/python-modules/syslogng/modules/example/.\*  
modules/python-modules/syslogng/modules/s3/.\*  
modules/python-modules/syslogng/modules/webhook/scl/.\*  
modules/python-modules/syslogng/modules/webhook/\_\_init\_\_.py  
modules/python-modules/setup\\*.py  
scripts/build-python-venv\\*.sh  
modules/syslogformat/sdata-parser\.[ch]  
tests/light/functional\_tests/config\_change/test\_python\_custom\_options\\*.py  
tests/light/functional\_tests/logpath/\_\_init\_\_.py  
tests/light/functional\_tests/logpath/test\_named\_logpaths.py

tests/light/functional\_tests/logpath/test\_named\_logpaths\_with\_catchall\_flag.py  
 tests/light/functional\_tests/logpath/test\_named\_logpaths\_with\_fallback\_flag.py  
 tests/light/functional\_tests/logpath/test\_named\_logpaths\_with\_final\_flag.py  
 tests/light/functional\_tests/parsers/sdata-parser/test\_sdata\_parser\.  
 tests/light/functional\_tests/parsers/group-lines-parser/test\_group\_lines\_parser\.  
 tests/light/functional\_tests/parsers/postgresql-csvlog-parser/test\_postgresql\_csvlog\_parser\.  
 tests/light/functional\_tests/logpath/test\_conditionals\.  
 tests/light/functional\_tests/logpath/test\_midpoint\_destinations\.  
 tests/light/functional\_tests/value-pairs/test\_value\_pairs\.  
 tests/light/functional\_tests/templates/test\_template\_stmt\.  
 tests/light/functional\_tests/filters/test\_multiple\_filters\.  
 tests/light/functional\_tests/parsers/metrics-probe/test\_metrics\_probe\.  
 tests/light/functional\_tests/source\_drivers/syslog\_source/auto/test\_auto\_proto\.  
 tests/light/src/syslog\_ng\_ctl/prometheus\_stats\_handler.py  
 tests/light/src/syslog\_ng\_config/statements/template/template\.  
 tests/light/src/syslog\_ng\_config/statements/\_init\_\.  
 tests/light/src/syslog\_ng/syslog\_ng\_docker\_executor.py  
 modules/correlation/id-counter\.[ch]\$  
 modules/correlation/group-lines.h  
 modules/xml/windows-eventlog-xml-parser\.  
 modules/xml/tests/test\_windows\_eventlog\_xml\_parser\.  
 modules/affile/logrotate\.[ch]  
 tests/light/functional\_tests/destination\_drivers/file\_destination/test\_logrotate\_all\_messages\_received\.  
 tests/light/functional\_tests/destination\_drivers/file\_destination/test\_logrotate\_deleting\_log\_file\.  
 tests/light/functional\_tests/destination\_drivers/file\_destination/test\_logrotate\_rotation\_failure\.

#####  
#

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#####  
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news/create-newsfile.py  
 news/next-pr-id.py  
 dev-utils/plugin\_skeleton\_creator/create\_plugin.sh  
 tests/functional  
 tests/unit  
 tests/valgrind  
 tests/build-log-cflags-propagation.sh  
 tests/collect-cov.sh  
 tests/commits/check.sh  
 tests/copyright/check.sh  
 tests/light  
 modules/java/(tools[^\]\*\$)  
 modules/java-modules/(dummy|hdfs[^\]\*\$)  
 modules/(afamqp|affile|afmongodb|afprog|afsmtp|afsocket|afsql|afstomp|afstreams|afuser|azure-auth-  
 header|basicfuncs|cef|confgen|cryptofuncs|csvparser|timestamp|diskq|correlation|geoip2|graphite|json|kvformat|linux  
 -kmsg-format|pacctformat|pseudofile|python|python-modules|redis|riemann|syslogformat|systemd-

journal|getent|system-source|stardate|snmptrapd-parser|xml|openbsd|examples|kafka|afsnmp|mqtt|regexp-parser|rate-limit-filter|[/]\*\$)

modules/(add-contextual-data|tagsparser|map-value-pairs|hook-commands|appmodel|[/]\*\$)

modules/cryptofuncs/cryptofuncs.c\$

modules/cryptofuncs/tests/test\_cryptofuncs.c\$

modules/http/(http-loadbalancer|http-worker).[ch]\$

modules/http/response-handler.[ch]\$

modules/http/http-curl-header-list.[ch]\$

modules/http/autodetect-ca-location.[ch]\$

packaging/package-indexer/\*.py\$

scl

scripts

modules/http/tests

modules/http/http.[ch]

modules/http/http-parser.c

modules/http/http-grammar.ym

modules/correlation/group-lines.c

modules/python-modules/syslogng/modules/webhook/source.py

docker/Dockerfile

docker/entrypoint.sh

Doxyfile

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#####

## Constant-time SSSE3 AES core implementation.

## version 0.1

##

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##

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```
#ifndef GDB_X86_BSD_NAT_H
#define GDB_X86_BSD_NAT_H
```

```
#include "x86-nat.h"
```

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

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

#endif /* GDB_X86_BSD_NAT_H */
```

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```
#ifndef GDB_HPPA_BSD_TDEP_H
#define GDB_HPPA_BSD_TDEP_H
```

```
extern void hppabsd_init_abi (struct gdbarch_info, struct gdbarch *);
```

```
#endif /* GDB_HPPA_BSD_TDEP_H */
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```

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```
#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
   difficult for the compiler to generate a call to this. These are
   used as arguments to the function __VLTChangePermission, declared
   below. */
#define __VLTP_READ_ONLY 0
#define __VLTP_READ_WRITE 1

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

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size. */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
```

```

#define VTV_PAGE_SIZE 8192
#elif defined(__loongarch_lp64)
/* The page size is configurable by the kernel to
be 4, 16 or 64 KiB.
For now, only the default page size of 16KiB is supported. */
#define VTV_PAGE_SIZE 16384
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif

```

```

#endif /* __VTV_H__ */
/* Common target dependent code for Alpha BSD's.

```

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```

#ifndef GDB_ALPHA_BSD_TDEP_H
#define GDB_ALPHA_BSD_TDEP_H

```

```

#include "gdbarch.h"

```

```

struct regcache;

```

```

void alphabsd_supply_reg (struct regcache *, const char *, int);
void alphabsd_fill_reg (const struct regcache *, char
*, int);

```

```

void alphabsd_supply_fpreg (struct regcache *, const char *, int);
void alphabsd_fill_fpreg (const struct regcache *, char *, int);

```

```

/* Functions exported from alpha-netbsd-tdep.c. */

/* Iterate over supported core file register note sections. */
void alphanbsd_iterate_over_regset_sections (struct gdbarch *gdbarch,
      iterate_over_regset_sections_cb *cb,
      void *cb_data,
      const struct regcache *regcache);

#endif /* GDB_ALPHA_BSD_TDEP_H */
/* Native-dependent code for modern AMD64 BSD's.

```

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```

#ifndef GDB_AMD64_BSD_NAT_H
#define GDB_AMD64_BSD_NAT_H

#include "x86-bsd-nat.h"

/* Helper functions. See definitions. */
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache,
      int
      regnum);
extern void amd64bsd_store_inferior_registers (struct regcache *regcache,
      int regnum);

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

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

```

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

```
#endif /* GDB_AMD64_BSD_NAT_H */
/* Extract the last component (base name) of a file name.
```

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

```
#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 */
```

```
@c The GNU Free Documentation License.
```

```
@center Version 1.3, 3 November 2008
```

```
@c This file is intended to be included within another document,
```

```
@c hence no sectioning command or @node.
```

```
@display
```

```
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```

```
@uref{http://fsf.org/}
```



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@end display

@enumerate 0

@item

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```
#ifndef GDB_I386_BSD_NAT_H
#define GDB_I386_BSD_NAT_H
```

```
#include "x86-bsd-nat.h"
```

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

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

```
template<typename BaseTarget>
```

```

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

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

#endif /* GDB_I386_BSD_NAT_H */
/* BSD Kernel Data Access Library (libkvm) interface.

```

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```

#ifndef GDB_BSD_KVM_H
#define GDB_BSD_KVM_H

```

```

struct pcb;
struct regcache;

```

```

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

```

```

extern void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *));

```

```

#endif /* GDB_BSD_KVM_H */
@ignore
@c Set file name and title for man page.
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```



@c man begin SEEALSO

gfdl(7), fsf-funding(7).

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@smallexample

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This is free software, and you are welcome to redistribute it  
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```
#ifndef GDB_BSD_UTHREAD_H
#define GDB_BSD_UTHREAD_H

/* Set the function that supplies registers for an inactive thread for
architecture GDBARCH to SUPPLY_UTHREAD. */

extern void bsd_uthread_set_supply_uthread (struct gdbarch
*gdbarch,
void (*supply_uthread) (struct regcache *,
int, CORE_ADDR));

/* Set the function that collects registers for an inactive thread for
architecture GDBARCH to SUPPLY_UTHREAD. */

extern void bsd_uthread_set_collect_uthread (struct gdbarch *gdbarch,
void (*collect_uthread) (const struct regcache *,
int, CORE_ADDR));

#endif /* GDB_BSD_UTHREAD_H */

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Version 2, June 1991
```

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# 1.222 kerberos 1.22.2

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cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
```

lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
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lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c

lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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```
-----
WIS GO7007SB Public Linux Driver
-----
```

\*\*\* 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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The

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## 1. SYSTEM REQUIREMENTS

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

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

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

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

HCD (USB 2.0) support

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

CONFIG\_SND\_MIXER\_OSS - OSS Mixer API  
CONFIG\_SND\_PCM\_OSS - OSS PCM (digital audio) API

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

## 2. COMPILING AND INSTALLING THE DRIVER

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

```
$ make
```

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

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

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

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

```
$ make install
```

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

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

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

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

this section.

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

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

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

| TV band | force_band |
|---------|------------|
| -----   | -----      |
| PAL B/G | B          |
| PAL I   | I          |
| PAL D/K | D          |
| SECAM L | L          |

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

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

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

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

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

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

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

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

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

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

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

#### 4. TESTING THE DRIVER

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

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

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

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

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

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



## 5. USING THE DRIVER

The

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

- \* Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.
- \* No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.
- \* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.
- \* MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.
- \* Video parameters such as format and input port may not be changed while the encoder is active.
- \* The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.
- \* The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

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

GO7007IOC\_S\_COMP\_PARAMS, GO7007IOC\_G\_COMP\_PARAMS

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC\_G\_COMP\_PARAMS ioctl with a pointer to a struct go7007\_comp\_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007\_comp\_params and call the GO7007\_IOC\_S\_COMP\_PARAMS ioctl with a

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

Fields in struct go7007\_comp\_params:

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

|                |                                      |
|----------------|--------------------------------------|
| __u32<br>flags | 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 `ioctl`s 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 Plextor 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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target\_firmware/magpie\_fw\_dev/target/cmnos/k2\_fw\_cmnos\_printf.c

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

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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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```

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 */

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```

```

/*-
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 *
 * First, the polynomial itself and its table of feedback terms. The
 * polynomial is
 *  $X^{32} + X^{26} + X^{23} + X^{22} + X^{16} + X^{12} + X^{11} + X^{10} + X^8 + X^7 + X^5 + X^4 + X^2 + X^1 + X^0$ 
 *
 * Note that we take it "backwards" and put the highest-order term in
 * the lowest-order bit. The  $X^{32}$  term is "implied"; the LSB is the
 *  $X^{31}$  term, etc. The  $X^0$  term (usually shown as "+1") results in
 * the MSB being 1
 *
 * Note that the usual hardware shift register implementation, which

```



```

* is what we're using (we're merely optimizing it by doing eight-bit
* chunks at a time) shifts bits into the lowest-order term. In our
* implementation, that means shifting towards the right. Why do we
* do it this way? Because the calculated CRC must be transmitted in
* order from highest-order
term to lowest-order term. UARTs transmit
* characters in order from LSB to MSB. By storing the CRC this way
* we hand it to the UART in the order low-byte to high-byte; the UART
* sends each low-bit to high-bit; and the result is transmission bit
* by bit from highest- to lowest-order term without requiring any bit
* shuffling on our part. Reception works similarly
*
* The feedback terms table consists of 256, 32-bit entries. Notes
*
* The table can be generated at runtime if desired; code to do so
* is shown later. It might not be obvious, but the feedback
* terms simply represent the results of eight shift/xor opera
* tions for all combinations of data and CRC register values
*
* The values must be right-shifted by eight bits by the "updcrc
* logic; the shift must be unsigned (bring in zeroes). On some
* hardware you could probably optimize the shift in assembler by
* using byte-swap instructions
* polynomial
$edb88320
*

```

```

-----

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

```

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

```

-----

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

```

\*  
\* Fowler/Noll/Vo hash  
\*  
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-----  
/\*  
\* sha1.c  
\*  
\* Originally written by Steve Reid <steve@edmweb.com>  
\*  
\* Modified by Aaron D. Gifford <agifford@infowest.com>  
\*  
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\*  
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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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 * SHA1 hash implementation and interface functions
 * Copyright (c) 2003-2005, Jouni Malinen <jkmaline@cc.hut.fi>
 *
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 */
```

-----

```
/*
 * hmac_sha1.c
 *
 * Version
 * 1.0.0
 *
 * Written by Aaron D. Gifford <me@aarongifford.com>
 *
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 \* Author: Malcolm Purvis <malcolmp@ok-labs.com>  
 \* Author: Carlos Dyonisio <medaglia@ok-labs.com>

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

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File: tailq.h

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=====  
File: ol\_fw\_tx\_dbg.h

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File: pktlog\_if.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: targaddr.h

/\*

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File: targcfg.h

/\*

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=====

File: wal\_rx\_desc.h

/\*

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=====

File: wlan\_module\_ids.h

/\*

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File: aes\_gcm.h

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\*/

=====  
File: aes\_wrap.h

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/\*  
\* AES-based functions  
\*  
\*  
\* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)  
\* - One-Key CBC MAC (OMAC1) hash with AES-128  
\* - AES-128 CTR mode encryption  
\* - AES-128 EAX mode encryption/decryption  
\* - AES-128 CBC  
\*  
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/\*  
\* MD5 hash implementation and interface functions  
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```

```

=====
File: sha1.h

```

```

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*/

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

```

=====
File: sha2.h

```

```

/*
* FILE:  sha2.h
* AUTHOR: Aaron D. Gifford - http://www.aarongifford.com/
*
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- \*
- \* \$Id: //depot/sw/branches/qca\_rome\_main/perf\_pwr\_offload/drivers/target/include/sha2.h#1
- \$
- \*/

=====

File: wal\_dfs.h

```
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 */
```

=====

File:

if\_ethersubr.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_ethersubr.h#3 $
//
=====
File: wal_phy_dev.h
/*
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*/

```

```

=====
File: wal_virtual_dev.h

```

```

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```

```

=====
File:

```

```

wal_dfs.c
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 \*/

=====  
 File:

ieee\_crc32.c

/\*

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

\*

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

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

\*

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

\*

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

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

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

\*

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

\*

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

\*

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

\* polynomial \$edb88320

```

*
*
* CRC32 code derived from work by Gary S.
  Brown.
*/
=====
File: aes.c
/*
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*/

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

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

```

*/

```

```

=====
File: aes_gcm.c

```

```

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

```

```

*

```

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*

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File: common.h

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/\*  
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=====  
File: crypto.h

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/\*  
\* WPA Supplicant / wrapper functions for crypto libraries  
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\*  
\* This file defines the cryptographic functions that need to be implemented  
\* for wpa\_supplicant and hostapd. When TLS is not used, internal  
\* implementation of MD5, SHA1, and AES is used and no external libraries are  
\* required. When TLS

is enabled (e.g., by enabling EAP-TLS or EAP-PEAP), the

- \* crypto library used by the TLS implementation is expected to be used for
- \* non-TLS needs, too, in order to save space by not implementing these
- \* functions twice.
- \*
- \* Wrapper code for using each crypto library is in its own file (crypto\*.c)
- \* and one of these files is build and linked in to provide the functions
- \* defined here.
- \*/

=====  
File: md5.c

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

=====  
File: sha1.c

```
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 */

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

cil.h

/\* =====

\* \$File: //depot/sw/branches/qca\_main\_wifi2.0/perf\_pwr\_offload/drivers/target/include/cil.h \$

\* \$Revision: #1 \$

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

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=====  
File: dwc\_dev.h

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File:

dwc\_os\_dev.h

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\* \$File: //depot/sw/branches/qca\_main\_wifi2.0/perf\_pwr\_offload/drivers/target/include/os\_dev.h \$

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=====  
File: pcd.h

/\* =====

\* \$File: //depot/sw/branches/qca\_main\_wifi2.0/perf\_pwr\_offload/drivers/target/include/pcd.h \$

\* \$Revision: #1 \$

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File: whal\_api.h

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File: 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\_radar\_report.h

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=====  
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Simple Windows replacement for POSIX semaphores
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*/
=====
File: phyOsApiWindowsSem.c
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File: phyUtilsStrlcpy.c
/* $OpenBSD: strlcpy.c,v 1.11 2006/05/05 15:27:38 millert Exp $ */

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File: ath\_dfs\_structs.h

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File: dfs.h

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File: dfs\_interface.h

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=====
File: dfs_ioctl.h

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=====
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File: types.h

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```

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```

File: cds\_reg\_service.h

```

/*

```

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File: qdf_status.h

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```

```

/*

```

```

=====

```

```

File: wma_dfs_interface.h

```



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/*
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```

```

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File: dfs.c

```

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```

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File: dfs_debug.c

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```
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File: dfs_fcc_bin5.c
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File: dfs\_init.c

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if\_llc.h

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//
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
// $NetBSD: if_llc.h,v 1.12 1999/11/19 20:41:19 thorpej Exp $
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
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*
* @(#)if_llc.h 8.1 (Berkeley) 6/10/93
* $FreeBSD: src/sys/net/if_llc.h,v 1.9 2002/09/23 06:25:08 alfred Exp $
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File: sha2.c

/\*

\* FILE: sha2.c

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File: wlan\_p2p\_disc\_offload\_internal.h

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\* Wi-Fi Protected Setup - message definitions  
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\*

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

/\*  
\* AES-128/192/256 CTR  
\*  
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=====  
File: aes-siv.c

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/\*  
\* AES SIV (RFC 5297)  
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File: aes\_siv.h

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=====  
File: crypto.h

```

/*
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 */

/*
 * WPA Supplicant / wrapper functions for crypto libraries
 * Copyright (c) 2004-2005, Jouni Malinen <jkmaline@cc.hut.fi>
 *
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 *
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 *
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 *
 * This file defines the cryptographic functions that need to be implemented
 * for wpa_supplicant and hostapd. When TLS is not used, internal
 * implementation of MD5, SHA1, and AES is used and no external libraries are
 * required. When TLS is enabled
 * (e.g., by enabling EAP-TLS or EAP-PEAP), the
 * crypto library used by the TLS implementation is expected to be used for
 * non-TLS needs, too, in order to save space by not implementing these
 * functions twice.
 *
 * Wrapper code for using each crypto library is in its own file (crypto*.c)
 * and one of these files is build and linked in to provide the functions
 * defined here.
 */

```

```

=====
File: fils.c

```

```

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

```

```

=====
File: fils.h

```

```

/*
 * WPA/RSN - Shared functions for supplicant and authenticator
 * EAP common peer/server definitions
 * EAP

```



peer state machines (RFC 4137)

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=====

File: m1\_m4\_frame.c

/\*

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/\* RC4 stream cipher

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=====

File: my\_nan\_sec.c

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\* WPA Supplicant - WPA state machine and EAPOL-Key processing

\* Copyright (c) 2003-2005, Jouni Malinen

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```

```

=====
File: mywpa_common.c

```

```

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

```

=====
File: mywpa_common.h

```

```

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

```

=====
File: mywpa_ft.c

```

```

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```

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* 802.11r - Fast BSS Transition
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File: sha256.c

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\* SHA-256 hash implementation and interface functions  
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\*/

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

/\*

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

=====  
File: sha384.c

/\*

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=====  
File: sha384\_i.h

/\*

\* SHA-384 internal definitions

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File: sha384-internal.c

/\*

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

/\*

\* SHA384-based KDF (IEEE 802.11ac)

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=====  
File: sha512\_i.h

/\*

\* SHA-512 internal definitions

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File: sha512-internal.c

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\*/

=====  
File: stringl.h

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

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

/\*\_

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\*

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

\*/

=====  
File: strlcpy.c

/\* \$OpenBSD: strlcpy.c,v

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

/\*

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

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 \*/

```
=====
File: lz.c
```

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

```

// but still quite slow compared to other compression methods.
//
// The upside is that decompression is very fast, and the compression ratio
// is often very good.
//
// The reference to a string is coded as a (length,offset) pair, where the
// length indicates the length of the string, and the offset gives the
// offset from the current data position. To distinguish between string
// references and literal strings (uncompressed bytes), a string reference
// is preceded by a marker byte, which is chosen as the least common byte
// symbol in
// the input data stream (this marker byte is stored in the
// output stream as the first byte).
//
// Occurrences of the marker byte in the stream are encoded as the marker
// byte followed by a zero byte, which means that occurrences of the marker
// byte have to be coded with two bytes.
//
// The lengths and offsets are coded in a variable length fashion, allowing
// values of any magnitude (up to 4294967295 in this implementation).
//
// With this compression scheme, the worst case compression result is
//  $(257/256) * \text{insize} + 1$ .
//
//-----
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// distribution.
//
// 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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// $ATH_LICENSE_NULL$
```

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//
```

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// Marcus Geelnard
```

```
// marcus.geelnard at home.se
```

```
//
```

```
=====
```

```
File: arm_common_tables.h
```

```
/* -----
```

```
*
```

```
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```

```
*
```

```
* $Date:    19. October 2015
```

```
* $Revision: V.1.4.5 a
```

```
*
```

```
* Project:   CMSIS DSP Library
```

```

* Title:   arm_common_tables.h
*
* Description: This file has extern declaration for common tables like Bitreverse, reciprocal etc which are used
across different functions
*
* Target Processor: Cortex-M4/Cortex-M3
*
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* -----
*/

```

```

=====
File: arm_const_structs.h

```

```

/* -----
* Copyright (C) 2010-2014 ARM Limited. All rights reserved.
*
* $Date:    19. March 2015
* $Revision: V.1.4.5
*
* Project:   CMSIS DSP Library
* Title:    arm_const_structs.h
*
* Description: This file has constant structs that are initialized for

```

```

*      user convenience. For example, some can be given as
*      arguments to the arm_cfft_f32() function.
*
* Target Processor: Cortex-M4/Cortex-M3
*
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* ----- */

```

```

=====

```

```

File: arm_math.h

```

```

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

```

```

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* ----- */

```

```

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```

```

File: cmsis_armcc.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 $
//

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File: targaddrs.h

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File: wal\_rx\_desc.h

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=====

File: aes\_gcm.h

/\*

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

\*

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

\*

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```

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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: sha2.h

/\*  
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File: wal_dfs.h

```

```

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File:

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```
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```
File: wal_dfs.c
```

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

```
=====
File: ieee_crc32.c
```

```
/*
```

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

```
*
```

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

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

```
*
```

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

```
*
```

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

```
CRC must be transmitted in
```

```
* order from highest-order term to lowest-order term. UARTs transmit
* characters in order from LSB to MSB. By storing the CRC this way
* we hand it to the UART in the order low-byte to high-byte; the UART
* sends each low-bit to high-bit; and the result is transmission bit
```

- \* by bit from highest- to lowest-order term without requiring any bit
- \* shuffling on our part. Reception works similarly
- \*
- \* The feedback terms table consists of 256, 32-bit entries. Notes
- \*
- \* The table can be generated at runtime if desired; code to do so
- \* is shown later. It might not be obvious, but the feedback
- \* terms simply represent the results of eight shift/xor opera
- \* tions for all combinations of data and CRC register values
- \*
- \* The values must be right-shifted by eight bits by the "updcrc
- \* logic; the shift must be unsigned (bring in zeroes). On some
- \* hardware you could probably optimize the shift in assembler
- by
- \* using byte-swap instructions
- \* polynomial \$edb88320
- \*
- \*
- \* CRC32 code derived from work by Gary S. Brown.
- \*/

=====

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

```
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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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```

```
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 * AES-128/192/256 CTR
 *
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=====

File: fils.c

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

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\* WPA definitions shared between hostapd and wpa\_supplicant  
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=====  
File:

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/\*  
\* HMAC-SHA256 KDF (RFC 5295) and HKDF-Expand(SHA256) (RFC 5869)  
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*/
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File: sha384.h
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=====

File: sha384_i.h
/*
* SHA-384 internal definitions
* Copyright (c) 2015, Pali Rohar <pali.rohar@gmail.com>
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*/

=====

File: sha384-internal.c
/*
* SHA-384 hash implementation and interface functions
* Copyright (c) 2015, Pali Rohar <pali.rohar@gmail.com>
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File: sha384-prf.c
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* SHA384-based KDF (IEEE 802.11ac)
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=====  
File: sha512\_i.h

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File: sha512-internal.c

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```

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

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

/\*

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

\*

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File: aes\_wrap.c

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\* AES-based functions

\*

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

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

\* - AES-128 CTR mode encryption

\* - AES-128 EAX mode encryption/decryption

\* - AES-128 CBC

\*

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common.h

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```

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 * wpa_supplicant/hostapd / common helper functions, etc.
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 */
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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

```
//  
// 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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 */
```

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File: athstartpack.h

```
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// $Id: //depot/sw/qca_main/components/wlan/qca-wifi-fw/1.0/drivers/target/src/wlan/proto/include/if_llc.h#2 $
// $NetBSD: if_llc.h,v 1.12 1999/11/19 20:41:19
// thorpej Exp $
// $Id: //depot/sw/qca_main/components/wlan/qca-wifi-fw/1.0/drivers/target/src/wlan/proto/include/if_llc.h#2 $
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 *
 * @(#)if_llc.h 8.1 (Berkeley) 6/10/93

```



\* \$FreeBSD: src/sys/net/if\_llc.h,v 1.9 2002/09/23 06:25:08 alfred Exp \$

\*/

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wlan/protocol/src/include/if\_llc.h#1

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wlan/protocol/include/if\_ethersubr.h#1

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// marcus.geelnard at home.se
//
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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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\* 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 \$

\*/

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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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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wlan/protocol/support/bin2srec/strlcpy.c

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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

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

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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.  
=====

#FILE:Conftest.py

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#

#

#  
=====

File: Conftest.py

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

/ \*\*\*

\*

\* Fowler/Noll/Vo- hash

\*

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

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

\*

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

```

*   Glenn Fowler (http://www.research.att.com/~gsf/)
*
* In a subsequent ballot round:
*
*   Landon Curt Noll (http://www.isthe.com/chongo/)
*
* improved on their algorithm. Some people tried this hash
* and found that it worked rather well. In an EMail message
* to Landon, they named it the ``Fowler/Noll/Vo" or FNV hash.
*
* FNV hashes are designed to be fast while maintaining a low
* collision rate. The FNV speed allows one to quickly hash
lots
* of data while maintaining a reasonable collision rate. See:
*
*   http://www.isthe.com/chongo/tech/comp/fnv/index.html
*
* for more details as well as other forms of the FNV hash.
*
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*
* By:
* chongo <Landon Curt Noll> ^oo^
*   http://www.isthe.com/chongo/
*
* Share and Enjoy! :-)
*/
File: fm_fnv_hash.h, fm_fnv_hash.c

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

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

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

```

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

/\*-

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\*

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

\*/

File: stringl.h

=====

9.

=====

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```
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 * WPA definitions shared between hostapd and wpa_supplicant  
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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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* 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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\* 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.  
\*/

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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.

\*/

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

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

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\*\*

\*\* This module is the Atheros specific ioctl/iwconfig/iwpriv interface  
\*\* to the ATH object, normally instantiated as wifiX, where X is the  
\*\* instance number (e.g. wifi0, wifi1).

\*\*

\*\* This provides a mechanism  
to configure the ATH object within the  
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-----

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-----

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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:

wlan\_nan\_msg\_common.h

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File: wmi\_tlv\_defs.h

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File: epping_test.h
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// @(#)queue.h 8.5 (Berkeley) 8/20/94

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

// \$Id: //components/rel/wlanfw\_cmn.cnss/1.0/cnss\_proc/wlan/fwcommon/include/queue.h#1 \$

//

=====  
File:

targaddrs.h

/\*

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File: aes\_gcm.h

\*/

/\*

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

\*

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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

```

/*
* FILE:  sha2.h
* AUTHOR: Aaron D. Gifford - http://www.aarongifford.com/
*
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*
* $Id: //depot/sw/branches/qca_rome_main/perf_pwr_offload/drivers/target/include/sha2.h#1 $
*/

```

```

=====
File: wal_dfs.h

```

```

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

```
=====
File: wal_dfs.c
```

```
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 */
```

```
=====
File: ieee_crc32.c
```

```
/*
 * COPYRIGHT (C) 1986 Gary S. Brown. You may use this program, or
 * code or tables extracted from it, as desired without
 * restriction.
 *
 * First, the polynomial itself and its table of feedback terms. The
 * polynomial is
 *  $X^{32} + X^{26} + X^{23} + X^{22} + X^{16} + X^{12} + X^{11} + X^{10} + X^8 + X^7 + X^5 + X^4 + X^2 + X^1 + X^0$ 
 *
 * Note that we take it "backwards" and put the highest-order term in
 * the lowest-order bit. The  $X^{32}$  term is "implied"; the LSB is the
 *  $X^{31}$  term, etc. The  $X^0$  term (usually shown as "+1") results in
 * the MSB being 1
 *
 * Note that the usual hardware shift register implementation, which
 * is what we're using (we're merely optimizing it by doing eight-bit
 * chunks at a time) shifts bits into the lowest-order term. In our
```

```

* implementation, that means shifting towards the right. Why do we
* do it this way? Because the calculated CRC must be transmitted in
* order from highest-order term to lowest-order term. UARTs transmit
* characters in order from LSB to MSB. By storing the CRC this way
* we hand it to the UART in the order low-byte to high-byte; the UART
* sends each low-bit
  to high-bit; and the result is transmission bit
* by bit from highest- to lowest-order term without requiring any bit
* shuffling on our part. Reception works similarly

```

```

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

```

```

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

```

```

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

```

```

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

```

```

*/

```

```

=====

```

```

File: aes.c

```

```

/*

```

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```

```

/*

```

```

* AES (Rijndael) cipher

```

```

*

```

```

* Modifications to public domain implementation:

```

```

* - support only 128-bit keys

```

```

* - cleanup

```

```

* - use C pre-processor to make it easier to change S table access

```

```

* - added option (AES_SMALL_TABLES) for reducing code size by about 8 kB at

```

```

  cost of reduced throughput (quite small difference on Pentium 4,

```

```

* 10-25% when using -O1 or -O2 optimization)

```

```

*

```

```

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```

```

*

```

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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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```

=====  
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\* AES-based functions  
\*  
\* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)  
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\* - AES-128 CTR mode encryption  
\* - AES-128 EAX mode encryption/decryption  
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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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```

```
File: wmi_tlv_helper.c
```

```
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=====

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=====  
File: phyUtilsStrncpy.c

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

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

=====  
File: qvit\_init\_api.h

- /\*
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File: wlan\_mlme\_wmi.c

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=====  
File: sha2.c

/\*  
\* FILE: sha2.c  
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```

```

=====
File: wlan_p2p_listen_offload.c

```

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File: wlan_p2p_listen_offload_int.c

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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)  
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File:

mywpa\_common.c

\* WPA/RSN - Shared functions for supplicant and authenticator

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File: mywpa\_common.h

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File:

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File: wmi\_vendor\_ss.h

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Firmware provided as part of an XC4000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@kernellabs.org> on July 1, 2009.

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Firmware provided as part of an XC5000 Linux developers kit by Brian  
Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org>  
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```
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 * WPA definitions shared between hostapd and wpa_supplicant
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 *
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 */
```

=====

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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 *
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 */
```

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```
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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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 *
 *
 * - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
 * - One-Key
 *   CBC MAC (OMAC1) hash with AES-128
 * - AES-128 CTR mode encryption
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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: suppl\_auth\_api.h

```

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```

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```

=====

```

File:  
config.h

```

/*

```

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File: wpa.h

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File: atomic\_ops.h

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

File: qurt\_atomic\_ops.h

```
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\*/

/\*

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

\*

\* This file is only included by the main atomic\_ops.h, so all of that  
\* file's definitions are available.

\*/

=====

File: ieee\_crc32.c

/\*

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```

* 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: sha2.h

/*

```

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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 $
```

=====  
File: phyUtilsStrlcpy.c

```
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```

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\*/

File: sha384-internal.c

/\*

\* SHA-384 hash implementation and interface functions

\* Copyright (c) 2015,

Pali Rohr <pali.rohar@gmail.com>

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```
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```

```
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*/
```

```
=====
```

File: sha512-internal.c

```
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```

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```

```
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File: sha384\_i.h

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 */
```

File: sha384-prf.c

```
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 * SHA384-based KDF (IEEE 802.11ac)
 * Copyright (c) 2003-2017, Jouni Malinen <j@w1.fi>
 *
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 */
```

File: sha384.h

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

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

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

```
=====
```

File: aes\_gcm.h

```
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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: md5\_api.h

```
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/*
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File: wlan\_p2p\_listen\_offload\_int.c

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 */
```

=====

File: aes-ctr.c

```
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 * AES-128/192/256 CTR
 *
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File: m1\_m4\_frame.c

```
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/* RC4 stream cipher
 * Copyright (c) 2002-2005,
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=====

File: my\_nan\_sec.c

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 * WPA Supplicant - WPA state machine and EAPOL-Key processing
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File: mywpa.c

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File: mywpa\_ft.c

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```
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 * WPA Supplicant - IEEE 802.11r - Fast BSS Transition
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File: mywpa\_ft.h

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File:

wlan\_p2p\_disc\_offload.c

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

=====

File: wlan\_p2p\_disc\_offload\_internal.h

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 * Wi-Fi Protected Setup - message definitions
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=====

File:

htt\_common.h

```
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File: pcie\_reg\_scratch.h

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File: wdi\_ipa.h

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File: wlan\_nan\_msg\_common.h

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File: wal\_dfs.h



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File: aes.c

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

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File: wma_dfs_interface.c

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File: sha2.c

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agere\_sta\_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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cmsis\_armclang.h

```
/*
*****
* @file    cmsis_armclang.h
* @brief   CMSIS compiler armclang (Arm Compiler 6) header file
* @version V5.3.1
* @date    26. March 2020
*****
/*
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*/
```

```

core_cm0plus.h
/*****
* @file    core_cm0plus.h
* @brief   CMSIS Cortex-M0+ Core Peripheral Access Layer Header File
* @version V5.0.9
* @date    21. August 2019
*****/

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*/

```

```

cmsis_compiler.h
/*****
* @file    cmsis_compiler.h
* @brief   CMSIS compiler generic header file
* @version V5.1.0
* @date    09. October 2018
*****/

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\*/

cmsis\_version.h

/\*\*\*\*\*\*//\*\*

\* @file cmsis\_version.h

\* @brief CMSIS Core(M) Version definitions

\* @version V5.0.4

\* @date 23. July 2019

\*\*\*\*\*/

/\*

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

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# 1.225 python-peewee 3.19.0

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