

# R&S® Oscilloscopes

## MX05

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### Software Version: 2.0.2.0



1802136600  
Version 01.01

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Version 3, 29 June 2007

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```
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```

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```
=====
attr-2.4.48: tools/attr.c, 1-17
=====
```

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 */
```

```
=====
attr-2.4.48: libattr/libattr.c, 1-17
=====
```

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```

```
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*/
```

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

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Copyright (C) <year> <name of author>
```

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```
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Random Hacker.
```

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

That's all there is to it!

```
=====
avahi-0.7: avahi-common/address.h, 1-25
=====
```

```
#ifndef fooaddressshfoo
#define fooaddressshfoo
```

```
/**
```

```
This file is part of avahi.
```

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\*\*\*/\*

/\*\* \file address.h Definitions and functions to manipulate IP addresses. \*/

#include <inttypes.h>

=====  
avahi-0.7: avahi-core/dns.h, 1-23  
=====

#ifndef foodnshfoo  
#define foodnshfoo

/\*\*

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\*\*\*/\*

#include "rr.h"

=====  
avahi-0.7: avahi-daemon/main.c, 1-21  
=====

/\*\*

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\*\*\*/

```
#ifdef HAVE_CONFIG_H
#include <config.h>
```

```
=====
avahi-0.7: avahi-client/client.h, 1-23
=====
```

```
#ifndef fooclienthfoo
#define fooclienthfoo
```

/\*\*

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\*\*\*/

```
#include <inttypes.h>
```

```
=====
bash-5.0: COPYING
binutils-2.38: COPYING3
binutils-2.38: gas/COPYING
```

```
binutils-2.38: include/COPYING3
binutils-2.38: bfd/COPYING
coreutils-8.31: COPYING
dosfstools-4.1: COPYING
elfutils-0.178: COPYING
gcc-runtime-9.3.0: COPYING3
gmp-6.2.0: COPYING
haveged-1.9.13: COPYING
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readline-8.0: COPYING
xz-5.2.4: COPYING.GPLv3
```

```
=====
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```

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

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

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

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

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

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

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

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

```
=====
binutils-2.38: COPYING.LIB
=====
```

```
GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991
```

Copyright (C) 1991 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA  
Everyone is permitted to copy and distribute verbatim copies  
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[This is the first released version of the library GPL. It is  
numbered 2 because it goes with version 2 of the ordinary GPL.]

#### Preamble

The licenses for most software are designed to take away your  
freedom to share and change it. By contrast, the GNU General Public  
Licenses are intended to guarantee your freedom to share and change  
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other libraries whose authors decide to use it. You can use it for  
your libraries, too.

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

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

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

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

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

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

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

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

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

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

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

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

GNU LIBRARY GENERAL PUBLIC LICENSE

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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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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

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

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

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

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

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

Library will still fall under Section 6.)

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- 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,

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#### END OF TERMS AND CONDITIONS

#### Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

```
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License along with this library; if not, write to the Free
Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
MA 02110-1301, USA
```

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

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

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

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

That's all there is to it!

```
=====
binutils-2.38: COPYING3.LIB
gcc-runtime-9.3.0: COPYING3.LIB
gmp-6.2.0: COPYING.LESSERv3
libgcc-9.3.0: COPYING3.LIB
libunistring-0.9.10: COPYING.LIB
nettle-3.5.1: COPYING.LESSERv3
=====
```

```
GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007
```

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Defining a subclass of a class defined by the Library is deemed a mode  
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an  
Application with the Library. The particular version of the Library  
with which the Combined Work was made is also called the "Linked  
Version".

The "Minimal Corresponding Source" for a Combined Work means the  
Corresponding Source for the Combined Work, excluding any source code  
for portions of the Combined Work that, considered in isolation, are  
based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the  
object code and/or source code for the Application, including any data  
and utility programs needed for reproducing the Combined Work from the  
Application, but excluding the System Libraries of the Combined Work.

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without being bound by section 3 of the GNU GPL.

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If you modify a copy of the Library, and, in your modifications, a  
facility refers to a function or data to be supplied by an Application  
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version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

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

### 3. Object Code Incorporating Material from Library Header Files.

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

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

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

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

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

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to



recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

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

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

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You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

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Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version"

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If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

```
=====
binutils-2.38: libiberty/COPYING.LIB
fribidi-1.0.9: COPYING
=====
```

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Version 2.1, February 1999

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Preamble

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

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

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```
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boost-1.72.0: LICENSE_1_0.txt
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=====
busybox-1.31.1: archival/libarchive/bz/LICENSE
=====
```

```
bzip2 applet in busybox is based on lightly-modified source
of bzip2 version 1.0.4. bzip2 source is distributed
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=====
```

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

```
=====
bzip2-1.0.8: LICENSE, 4-37
=====
```

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```
=====
ca-certificates-20211016: debian/copyright
=====
```

```
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Source: http://ftp.debian.org/debian/pool/main/c/ca-certificates/
```

```
Files: debian/*
        examples/*
        Makefile
        mozilla/*
        sbin/*
```

```
Copyright: 2003 Fumitoshi UKAI <ukai@debian.or.jp>
           2009 Philipp Kern <pkern@debian.org>
           2011 Michael Shuler <michael@pbandjelly.org>
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=====
coreutils-8.31: src/ls.c, 1-15
=====
```

```
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cpprest-2.10.16: license.txt
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Theodore Ts'o  
23-June-2007

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

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
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(at your option) any later version.
```

```
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```

```
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```

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

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

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be

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

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

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-----  
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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.

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

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```

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

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

That's all there is to it!

```
=====
e2fsprogs-1.45.7: lib/ext2fs/ext2fs.h, 1-9
=====
```

```
/*
 * ext2fs.h --- ext2fs
 *
 * Copyright (C) 1993, 1994, 1995, 1996 Theodore Ts'o.
 *
 * %Begin-Header%
 * This file may be redistributed under the terms of the GNU Library
 * General Public License, version 2.
 * %End-Header%
```

```
=====
e2fsprogs-1.45.7: lib/e2p/e2p.h, 1-7
=====
```

```
/*
 * e2p.h --- header file for the e2p library
 *
 * %Begin-Header%
 * This file may be redistributed under the terms of the GNU Library
 * General Public License, version 2.
 * %End-Header%
```

```
=====
e2fsprogs-1.45.7: lib/uuid/uuid.h.in, 1-32
=====
```

```
/*
 * Public include file for the UUID library
 *
 * Copyright (C) 1996, 1997, 1998 Theodore Ts'o.
 *
 * %Begin-Header%
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```

```

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* %End-Header%

```

```

=====
e2fsprogs-1.45.7: lib/uuid/COPYING
util-linux-2.35.1: Documentation/licenses/COPYING.BSD-3-Clause
=====

```

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```
=====
e2fsprogs-1.45.7: lib/et/et_name.c, 1-11
=====
```

```
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 *
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```

```
=====
e2fsprogs-1.45.7: lib/ss/ss.h, 1-20
=====
```

```
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 *
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 *
 * This quote is just too good to not pass on:
 *
 * "BTW, I would have rejected the name Story Server because its
 * initials are SS, the name of the secret police in Nazi
 * Germany, probably the most despised pair of letters in western
 * culture." --- http://scriptingnewsarchive.userland.com/1999/12/13
 *
 * Let no one say political correctness isn't dead....
```

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

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

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```
=====  
fontconfig-2.13.1: src/fcfreeType.c, 1-45  
=====
```

```
/*  
 * fontconfig/src/fcfreeType.c  
 *  
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 */
```

```
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*/

=====
fontconfig-2.13.1: src/fccache.c, 1671-1686
=====

/*
 * This code implements the MD5 message-digest algorithm.
 * The algorithm is due to Ron Rivest.  This code was
 * written by Colin Plumb in 1993, no copyright is claimed.
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 *
 * 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.
 */

=====
fpga-manager-script-1.0: fpgautil.c, 1-24
=====

/*****
 *
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 */

```

```

*
*****/
/*****/

```

```

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```

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```

```

=====
freetype-2.10.1: docs/FTL.TXT
=====

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2006-Jan-27

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```
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```
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```

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

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```
=====
fuse-2.9.9: COPYING.LIB
gdk-pixbuf-2.40.0: COPYING
glib-2.0-2.62.6: COPYING
glib-2.0-2.62.6: gmodule/COPYING
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networkmanager-1.22.10: COPYING.LGPL
systemd-244.5: LICENSE.LGPL2.1
util-linux-2.35.1: Documentation/licenses/COPYING.LGPL-2.1-or-later
xz-5.2.4: COPYING.LGPLv2.1
=====
```

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Version 2.1, February 1999

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```
=====
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Version 3.1, 31 March 2009

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```
=====
gdk-pixbuf-2.40.0: gdk-pixbuf/gdk-pixbuf.h, 1-26
=====
```

```
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 *
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```

```
#ifndef GDK_PIXBUF_H
#define GDK_PIXBUF_H
```

```
=====
glib-2.0-2.62.6: glib/glib.h, 4-17
glib-2.0-2.62.6: gmodule/gmodule.h, 4-17
=====
```

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=====
glib-2.0-2.62.6: glib/pcpre/pcpre.h, 8-36
=====

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```
=====
gnutls-3.6.14: doc/COPYING.LESSER
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```

```
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```
=====
gpgme-1.13.1: src/gpgme.h.in, 1-23
=====
```

```
/* gpgme.h - Public interface to GnuPG Made Easy.                -*- c -*-
 * Copyright (C) 2000 Werner Koch (dd9jn)
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 *
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 * SPDX-License-Identifier: LGPL-2.1-or-later
 *
 * Generated from gpgme.h.in for @GPGME_CONFIG_HOST@.
 */
```

```
=====
gpgme-1.13.1: src/engine.h, 1-22
=====
```

```
/* engine.h - GPGME engine interface.
 Copyright (C) 2000 Werner Koch (dd9jn)
 Copyright (C) 2001, 2002, 2003, 2004, 2010 g10 Code GmbH
```

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```
#ifndef ENGINE_H
```

```
=====
graphviz-2.40.1: COPYING
=====
```

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=====
iproute2-5.5.0: ip/ip.c, 3-8
=====
```

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```
=====
iptables-1.8.4: iptables/iptables.c, 13-25
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```
=====
jansson-2.13.1: LICENSE
=====
```

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=====
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```

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```
=====
kernel-module-mali-r9p0-01rel10: linux/license/gpl/mali_kernel_license.h
=====

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 */

/**
 * @file mali_kernel_license.h
 * Defines for the macro MODULE_LICENSE.
 */

#ifndef __MALI_KERNEL_LICENSE_H__
#define __MALI_KERNEL_LICENSE_H__

#ifdef __cplusplus
extern "C" {
#endif

#define MALI_KERNEL_LINUX_LICENSE "GPL"
```

```

#define MALI_LICENSE_IS_GPL 1

#ifdef __cplusplus
}
#endif

#endif /* __MALI_KERNEL_LICENSE_H__ */

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=====

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```
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```

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```
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```

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```
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```

```
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```

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

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```

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

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

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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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- 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,

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked

with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

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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.

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



the Library into a program that is not a library.

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

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

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

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

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.  
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit

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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.
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```
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```

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it under the terms of the GNU General Public License as published by  
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```
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```

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```
=====
libassuan-2.5.3: src/assuan.c, 1-20
=====
```

```
/* assuan.c - Global interface (not specific to context).
 * Copyright (C) 2009 Free Software Foundation, Inc.
 * Copyright (C) 2001, 2002, 2012, 2013 g10 Code GmbH
 *
 * This file is part of Assuan.
 *
 * Assuan is free software; you can redistribute it and/or modify it
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 * the License, or (at your option) any later version.
```

```

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* SPDX-License-Identifier: LGPL-2.1+
*/

=====
libassuan-2.5.3: src/assuan-defs.h, 1-20
=====

/* assuan-defs.h - Internal definitions to Assuan
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*           2009, 2010 Free Software Foundation, Inc.
*
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=====
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=====

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```

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```
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```

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

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

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```
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```

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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```
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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"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.)

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```
=====
libcroco-0.6.13: src/cr-rgb.c, 1-22
=====
```

```
/* -*- Mode: C; indent-tabs-mode:nil; c-basic-offset: 8 -*- */
```

```
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=====
libcroco-0.6.13: tests/cr-test-utils.c, 1-21
=====

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 */

#include <string.h>

=====
libdaemon-0.14: libdaemon/daemon.h, 9-21
=====

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```

```
=====  
libdrm-2.4.101: xf86drm.c, 9-32  
=====
```

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=====

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- cipher/sha256-ssse3-amd64.S
- cipher/sha512-avx-amd64.S
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Version 2.1, February 1999

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```
=====
libidn2-2.3.0: src/idn2.c, 1-16
=====
```

```
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```

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```
*/
```

```
=====
libidn2-2.3.0: lib/idn2.h.in, 1-27
=====
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[1]

<https://gitlab.freedesktop.org/libinput/libinput/blob/master/include/linux/input.h>

```
=====
libjpeg-turbo-2.0.4: cdjpeg.h, 1-13
=====
```

```
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 * cdjpeg.h
 *
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 * file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */
```

```
=====
libjpeg-turbo-2.0.4: jpeglib.h, 1-16
=====
```

```
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*
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

```

```

=====
libjpeg-turbo-2.0.4: djpeg.c, 1-11
=====

```

```

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Email domain: cam.ac.uk

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```
=====
librsvg-2.40.21: rsvg.h, 3-24
=====
```

```
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```

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```
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```

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```

```
*/
```

```
=====
libtirpc-1.2.6: src/netname.c, 1-27
rpcbind-1.2.5: src/rpcinfo.c, 1-27
=====
```

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```

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*/
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```
=====
libunistring-0.9.10: README, 45-65
```

```
=====
```

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```

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```
=====
```

libunistring-0.9.10: doc/libunistring.texi

```
=====
```

```
\input texinfo          @c -*-texinfo-*-
@comment %**start of header
@setfilename libunistring.info
@documentencoding UTF-8
@settitle GNU libunistring
@finalout
@c Indices:
@c  am = autoconf macro  @amindex
@c  cp = concept         @cindex
@c  fn = function        @findex
@c  tp = type            @tindex
@c Unused predefined indices:
@c  ky = keystroke       @kindex
@c  pg = program         @pindex
@c  vr = variable        @vindex
@defcodeindex am
@syncodeindex am cp
@syncodeindex fn cp
@syncodeindex tp cp
@ifclear texi2html
@firstparagraphindent insert
@end ifclear
```

```
@c texi2html-1.76 does not support @arrow{}.
@ifset texi2html
@macro arrow{}
→
@end macro
@end ifset
@comment %**end of header

@include version.texi

@c Location of the POSIX specification on the web.
@set POSIXURL http://pubs.opengroup.org/onlinepubs/9699919799

@c Macro for referencing a POSIX header.
@ifinfo
@macro posixheader{header}
@code{<\header>}
@end macro
@end ifinfo
@ifnotinfo
@macro posixheader{header}
@uref{@value{POSIXURL}/basedefs/\header\.html,,@code{<\header>}}
@end macro
@end ifnotinfo

@c Macro for referencing a POSIX function.
@c We don't write it as func(), see section "GNU Manuals" of the
@c GNU coding standards.
@ifinfo
@macro posixfunc{func}
@code{\func\}
@end macro
@end ifinfo
@ifnotinfo
@macro posixfunc{func}
@uref{@value{POSIXURL}/functions/\func\.html,,@code{\func\}}
@end macro
@end ifnotinfo

@c Macro for referencing a normal function.
@c We don't write it as func(), see section "GNU Manuals" of the
@c GNU coding standards.
@macro func{func}
@code{\func\}
@end macro

@c Macro for an advisory ragged line break in TeX mode.
@c Needed because there are long unbreakable pieces of text (such as URLs or
@c formulas), TeX is too shy to move them to a new line. TeX considers only
@c two choices: a line break in aligned mode (which it rejects due to aesthetic
```



```
@c reasons) and writing into the margin. What we want in many cases is a line
@c break without filling the first line. Like what @* delivers. But we want it
@c only when needed, so that it disappears when unrelated changes in the same
@c paragraph cause a line break in a nearby position. And we need it only in
@c TeX mode. info and HTML modes are fine.
@c This trick is from Karl Berry.
@iftex
@macro texnl
@hfil@penalty9000@hfilneg
@end macro
@end iftex
@ifnottex
@macro texnl
@end macro
@end ifnottex

@ifinfo
@dircategory Software development
@direntry
* GNU libunistring: (libunistring).      Unicode string library.
@end direntry
@end ifinfo

@ifinfo
This manual is for GNU libunistring.

@ignore
@c This was: @copying but it triggers a makeinfo 4.13 bug
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version 3 of the License, or (at your option) any later version published
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@end ignore
@end ifinfo
```

```

@titlepage
@title GNU libunistring, version @value{VERSION}
@subtitle updated @value{UPDATED}
@subtitle Edition @value{EDITION}, @value{UPDATED}
@author Bruno Haible

@ifnohtml
@page
@vskip 0pt plus 1filll
@c @insertcopying
Copyright (C) 2001-2018 Free Software Foundation, Inc.

```

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```

@end ifnohtml
@end titlepage

```

```

@c Table of Contents
@contents

```

```

@ifnottex
@node Top
@top GNU libunistring
@end ifnottex

```

```

@menu
* Introduction::          Who may need Unicode strings?
* Conventions::          Conventions used in this manual
* unitypes.h::           Elementary types
* unistr.h::             Elementary Unicode string functions
* uniconv.h::            Conversions between Unicode and encodings
* unistdio.h::           Output with Unicode strings
* uniname.h::            Names of Unicode characters
* unictype.h::           Unicode character classification and properties
* uniwidth.h::           Display width

```

```

* unigbrk.h::          Grapheme cluster breaking
* uniwbrk.h::          Word breaks in strings
* unilbrk.h::          Line breaking
* uninorm.h::          Normalization forms
* unicast.h::          Case mappings
* uniregex.h::         Regular expressions
* Using the library::  How to link with the library and use it?
* More functionality:: More advanced functionality
* The wchar_t mess::  Why @code{wchar_t *} strings are useless
* Licenses::           Licenses

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* Unicode and i18n::   Unicode and internationalization
* Locale encodings::   What is a locale encoding?
* In-memory representation:: How to represent strings in memory?
* char * strings::     What to keep in mind with @code{char *} strings
* Unicode strings::    How are Unicode strings represented?

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* Elementary string functions::
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* Elementary string functions on NUL terminated strings::

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* Comparing Unicode strings::
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* Duplicating a NUL terminated Unicode string::
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```

```
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* Properties::
* Scripts::
* Blocks::
* ISO C and Java syntax::
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- \* Case mappings of strings::
- \* Case mappings of substrings::
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- \* Compiler options::
- \* Include files::
- \* Autoconf macro::
- \* Reporting problems::

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@end detailmenu

@end menu

@node Introduction

@chapter Introduction

This library provides functions for manipulating Unicode strings and for manipulating C strings according to the Unicode standard.

It consists of the following parts:

@table @code

- @item <unistr.h>  
elementary string functions
- @item <unicnv.h>  
conversion from/to legacy encodings
- @item <unistdio.h>  
formatted output to strings
- @item <uniname.h>  
character names
- @item <unictype.h>  
character classification and properties
- @item <uniwidth.h>  
string width when using nonproportional fonts
- @item <unigbrk.h>  
grapheme cluster breaks
- @item <uniwbrk.h>  
word breaks
- @item <unilbrk.h>  
line breaking algorithm
- @item <uninorm.h>

```

normalization (composition and decomposition)
@item <unicase.h>
case folding
@item <uniregex.h>
regular expressions (not yet implemented)
@end table

@cindex use cases
@cindex value, of libunistring
libunistring is for you if your application involves non-trivial text
processing, such as upper/lower case conversions, line breaking, operations
on words, or more advanced analysis of text. Text provided by the user can,
in general, contain characters of all kinds of scripts. The text processing
functions provided by this library handle all scripts and all languages.

libunistring is for you if your application already uses the ISO C / POSIX
@posixheader{ctype.h}, @posixheader{wctype.h} functions and the text it
operates on is provided by the user and can be in any language.

libunistring is also for you if your application uses Unicode strings as
internal in-memory representation.

@menu
* Unicode::                What is Unicode?
* Unicode and i18n::       Unicode and internationalization
* Locale encodings::       What is a locale encoding?
* In-memory representation:: How to represent strings in memory?
* char * strings::         What to keep in mind with @code{char *} strings
* Unicode strings::        How are Unicode strings represented?
@end menu

@node Unicode
@section Unicode

@cindex Unicode
Unicode is a standardized repertoire of characters that contains characters
from all scripts of the world, from Latin letters to Chinese ideographs
and Babylonian cuneiform glyphs. It also specifies how these characters
are to be rendered on a screen or on paper, and how common text processing
(word selection, line breaking, uppercasing of page titles etc.) is supposed
to behave on Unicode text.

Unicode also specifies three ways of storing sequences of Unicode
characters in a computer whose basic unit of data is an 8-bit byte:
@cindex UTF-8
@cindex UTF-16
@cindex UTF-32
@cindex UCS-4
@table @asis
@item UTF-8

```

Every character is represented as 1 to 4 bytes.

@item UTF-16

Every character is represented as 1 to 2 units of 16 bits.

@item UTF-32, a.k.a@. UCS-4

Every character is represented as 1 unit of 32 bits.

@end table

For encoding Unicode text in a file, UTF-8 is usually used. For encoding Unicode strings in memory for a program, either of the three encoding forms can be reasonably used.

Unicode is widely used on the web. Prior to the use of Unicode, web pages were in many different encodings (ISO-8859-1 for English, French, Spanish, ISO-8859-2 for Polish, ISO-8859-7 for Greek, KOI8-R for Russian, GB2312 or BIG5 for Chinese, ISO-2022-JP-2 or EUC-JP or Shift\_JIS for Japanese, and many many others). It was next to impossible to create a document that contained Chinese and Polish text in the same document. Due to the many encodings for Japanese, even the processing of pure Japanese text was error prone.

References:

@itemize @bullet

@item

The Unicode standard:@texnl{} @url{http://www.unicode.org/}

@item

Definition of UTF-8:@texnl{} @url{http://www.rfc-editor.org/rfc/rfc3629.txt}

@item

Definition of UTF-16:@texnl{} @url{http://www.rfc-editor.org/rfc/rfc2781.txt}

@item

Markus Kuhn's UTF-8 and Unicode FAQ:@texnl{} @url{http://www.cl.cam.ac.uk/~mgk25/unicode.html}

@end itemize

@node Unicode and i18n

@section Unicode and Internationalization

@cindex internationalization

Internationalization is the process of changing the source code of a program so that it can meet the expectations of users in any culture, if culture specific data (translations, images etc.) are provided.

Use of Unicode is not strictly required for internationalization, but it makes internationalization much easier, because operations that need to look at specific characters (like hyphenation, spell checking, or the automatic conversion of double-quotes to opening and closing double-quote characters) don't need to consider multiple possible encodings of the text.

Use of Unicode also enables multilingualization: the ability of having text in multiple languages present in the same document or even in the same line of text.

But use of Unicode is not everything. Internationalization usually consists of four features:

@itemize @bullet

@item

Use of Unicode where needed for text processing. This is what this library is for.

@item

Use of message catalogs for messages shown to the user, This is what GNU gettext is about.

@item

Use of locale specific conventions for date and time formats, for numeric formatting, or for sorting of text. This can be done adequately with the POSIX APIs and the implementation of locales in the GNU C library.

@item

In graphical user interfaces, adapting the GUI to the default text direction of the current locale (see

[url{https://en.wikipedia.org/wiki/Right-to-left,right-to-left\\_languages}](https://en.wikipedia.org/wiki/Right-to-left,right-to-left_languages)).

@end itemize

@node Locale encodings

@section Locale encodings

@cindex locale

A locale is a set of cultural conventions. According to POSIX, for a program, at any moment, there is one locale being designated as the ``current locale''. (Actually, POSIX supports also one locale per thread, but this feature is not yet universally implemented and not widely used.)

@cindex locale categories

The locale is partitioned into several aspects, called the ``categories'' of the locale. The main various aspects are:

@itemize @bullet

@item

The character encoding and the character properties. This is the @code{LC\_CTYPE} category.

@item

The sorting rules for text. This is the @code{LC\_COLLATE} category.

@item

The language specific translations of messages. This is the @code{LC\_MESSAGES} category.

@item

The formatting rules for numbers, such as the decimal separator. This is the @code{LC\_NUMERIC} category.

@item

The formatting rules for amounts of money. This is the @code{LC\_MONETARY} category.

@item

The formatting of date and time. This is the @code{LC\_TIME} category.

@end itemize

@cindex locale encoding



In particular, the `{LC_CTYPE}` category of the current locale determines the character encoding. This is the encoding of `{char *}` strings. We also call it the `'locale encoding'`. GNU `libunistring` has a function, `{locale_charset}`, that returns a standardized (platform independent) name for this encoding.

All locale encodings used on `glibc` systems are essentially ASCII compatible: Most graphic ASCII characters have the same representation, as a single byte, in that encoding as in ASCII.

Among the possible locale encodings are UTF-8 and GB18030. Both allow to represent any Unicode character as a sequence of bytes. UTF-8 is used in most of the world, whereas GB18030 is used in the People's Republic of China, because it is backward compatible with the GB2312 encoding that was used in this country earlier.

The legacy locale encodings, ISO-8859-15 (which supplanted ISO-8859-1 in most of Europe), ISO-8859-2, KOI8-R, EUC-JP, etc., are still in use in some places, though.

UTF-16 and UTF-32 are not used as locale encodings, because they are not ASCII compatible.

`{node}` In-memory representation

`{section}` Choice of in-memory representation of strings

There are three ways of representing strings in memory of a running program.

`{itemize}` `{bullet}`

`{item}`

As `{char *}` strings. Such strings are represented in locale encoding. This approach is employed when not much text processing is done by the program. When some Unicode aware processing is to be done, a string is converted to Unicode on the fly and back to locale encoding afterwards.

`{item}`

As UTF-8 or UTF-16 or UTF-32 strings. This implies that conversion from locale encoding to Unicode is performed on input, and in the opposite direction on output. This approach is employed when the program does a significant amount of text processing, or when the program has multiple threads operating on the same data but in different locales.

`{item}`

As `{wchar_t *}`, a.k.a. `'wide strings'`. This approach is misguided, see `{The wchar_t mess}`.

`{end itemize}`

Of course, a `{char *}` string can, in some cases, be encoded in UTF-8. You will use the data type depending on what you can guarantee about how it's encoded: If a string is encoded in the locale encoding, or if you don't know how it's encoded, use `{char *}`. If, on the other hand, you can `{emph}` that it is UTF-8 encoded, then you can use the

UTF-8 string type, `uint8_t *`, for it.

The five types `char *`, `uint8_t *`, `uint16_t *`, `uint32_t *`, and `wchar_t *` are incompatible types at the C level. Therefore, `gcc -Wall` will produce a warning if, by mistake, your code contains a mismatch between these types. In the context of using GNU `libunistring`, even a warning about a mismatch between `char *` and `uint8_t *` is a sign of a bug in your code that you should not try to silence through a cast.

`node char * strings`  
`section @samp{char *} strings`

`index C string functions`

The classical C strings, with its C library support standardized by ISO C and POSIX, can be used in internationalized programs with some precautions. The problem with this API is that many of the C library functions for strings don't work correctly on strings in locale encodings, leading to bugs that only people in some cultures of the world will experience.

`index locale, multibyte`

The first problem with the C library API is the support of multibyte locales. According to the locale encoding, in general, every character is represented by one or more bytes (up to 4 bytes in practice --- but use `MB_LEN_MAX` instead of the number 4 in the code). When every character is represented by only 1 byte, we speak of a `unibyte locale`, otherwise of a `multibyte locale`. It is important to realize that the majority of Unix installations nowadays use UTF-8 or GB18030 as locale encoding; therefore, the majority of users are using multibyte locales.

`index char, type`

The important fact to remember is:

`cartouche`  
`emph{A @samp{char} is a byte, not a character.}`  
`end cartouche`

As a consequence:

`itemize @bullet`

`item`

The `posixheader{ctype.h}` API is useless in this context; it does not work in multibyte locales.

`item`

The `posixfunc{strlen}` function does not return the number of characters in a string. Nor does it return the number of screen columns occupied by a string after it is output. It merely returns the number of `bytes` occupied by a string.

`item`

Truncating a string, for example, with `posixfunc{strncpy}`, can have the

effect of truncating it in the middle of a multibyte character. Such a string will, when output, have a garbled character at its end, often represented by a hollow box.

@item

@posixfunc{strchr} and @posixfunc{strrchr} do not work with multibyte strings if the locale encoding is GB18030 and the character to be searched is a digit.

@item

@posixfunc{strstr} does not work with multibyte strings if the locale encoding is different from UTF-8.

@item

@posixfunc{strcspn}, @posixfunc{strpbrk}, @posixfunc{strspn} cannot work correctly in multibyte locales: they assume the second argument is a list of single-byte characters. Even in this simple case, they do not work with multibyte strings if the locale encoding is GB18030 and one of the characters to be searched is a digit.

@item

@posixfunc{strsep} and @posixfunc{strtok\_r} do not work with multibyte strings unless all of the delimiter characters are ASCII characters < 0x30.

@item

The @posixfunc{strcasemp}, @posixfunc{strncasemp}, and @posixfunc{strcasestr} functions do not work with multibyte strings.

@end itemize

The workarounds can be found in GNU glibc

@url{<http://www.gnu.org/software/glibc/>}.

@itemize @bullet

@item

glibc has modules @samp{mbchar}, @samp{mbiter}, @samp{mbuiter} that represent multibyte characters and allow to iterate across a multibyte string with the same ease as through a unibyte string.

@item

glibc has functions @func{mbslen} and @func{mbswidth} that can be used instead of @posixfunc{strlen} when the number of characters or the number of screen columns of a string is requested.

@item

glibc has functions @func{mbschr} and @func{mbsrchr} that are like @posixfunc{strchr} and @posixfunc{strrchr}, but work in multibyte locales.

@item

glibc has a function @func{mbsstr}, like @posixfunc{strstr}, but works in multibyte locales.

@item

glibc has functions @func{mbscspn}, @func{mbspbrk}, @func{mbssp} that are like @posixfunc{strcspn}, @posixfunc{strpbrk}, @posixfunc{strspn}, but work in multibyte locales.

@item

glibc has functions @func{mbssep} and @func{mbstok\_r} that are like @posixfunc{strsep} and @posixfunc{strtok\_r} but work in multibyte locales.

@item

glibc has functions @func{mbscasemp}, @func{mbsncasemp},

@func{mbspcasecmp}, and @func{mbscasestr} that are like @posixfunc{strcasecmp}, @posixfunc{strncasecmp}, and @posixfunc{strcasestr}, but work in multibyte locales. Still, the function @code{ulc\_casecmp} is preferable to these functions; see below.

@end itemize

The second problem with the C library API is that it has some assumptions built-in that are not valid in some languages:

@itemize @bullet

@item

It assumes that there are only two forms of every character: uppercase and lowercase. This is not true for Croatian, where the character @sc{LETTER DZ WITH CARON} comes in three forms:

@sc{LATIN CAPITAL LETTER DZ WITH CARON} (DZ),

@sc{LATIN CAPITAL LETTER D WITH SMALL LETTER Z WITH CARON} (Dz),

@sc{LATIN SMALL LETTER DZ WITH CARON} (dz).

@item

It assumes that uppercasing of 1 character leads to 1 character. This is not true for German, where the @sc{LATIN SMALL LETTER SHARP S}, when uppercased, becomes @samp{SS}.

@item

It assumes that there is 1:1 mapping between uppercase and lowercase forms.

This is not true for the Greek sigma: @sc{GREEK CAPITAL LETTER SIGMA} is the uppercase of both @sc{GREEK SMALL LETTER SIGMA} and

@sc{GREEK SMALL LETTER FINAL SIGMA}.

@item

It assumes that the upper/lowercase mappings are position independent.

This is not true for the Greek sigma and the Lithuanian i.

@end itemize

The correct way to deal with this problem is

@enumerate

@item

to provide functions for titlecasing, as well as for upper- and lowercasing,

@item

to view case transformations as functions that operates on strings, rather than on characters.

@end enumerate

This is implemented in this library, through the functions declared in @code{<unicase.h>}, see @ref{unicase.h}.

@node Unicode strings

@section Unicode strings

libunistring supports Unicode strings in three representations:

@cindex UTF-8, strings

@cindex UTF-16, strings

@cindex UTF-32, strings

```

@itemize @bullet
@item
UTF-8 strings, through the type @samp{uint8_t *}. The units are bytes
(@code{uint8_t}).
@item
UTF-16 strings, through the type @samp{uint16_t *}, The units are 16-bit
memory words (@code{uint16_t}).
@item
UTF-32 strings, through the type @samp{uint32_t *}. The units are 32-bit
memory words (@code{uint32_t}).
@end itemize

```

As with C strings, there are two variants:

```

@itemize @bullet
@item
Unicode strings with a terminating NUL character are represented as
a pointer to the first unit of the string. There is a unit containing
a 0 value at the end. It is considered part of the string for all
memory allocation purposes, but is not considered part of the string
for all other logical purposes.
@item
Unicode strings where embedded NUL characters are allowed. These
are represented by a pointer to the first unit and the number of units
(not bytes!) of the string. In this setting, there is no trailing
zero-valued unit used as ``end marker''.
@end itemize

```

```

@node Conventions
@chapter Conventions

```

This chapter explains conventions valid throughout the libunistring library.

```

@cindex argument conventions
Variables of type @code{char *} denote C strings in locale encoding.
See @ref{Locale encodings}.

```

Variables of type @code{uint8\_t \*} denote UTF-8 strings. Their units are bytes.

Variables of type @code{uint16\_t \*} denote UTF-16 strings, without byte order mark. Their units are 2-byte words.

Variables of type @code{uint32\_t \*} denote UTF-32 strings, without byte order mark. Their units are 4-byte words.

Argument pairs @code{(@var{s}, @var{n})} denote a string @code{@var{s}[0..@var{n}-1]} with exactly @var{n} units.

All functions with prefix @samp{ulc\_} operate on C strings in locale encoding.

All functions with prefix @samp{u8\_} operate on UTF-8 strings.

All functions with prefix @samp{u16\_} operate on UTF-16 strings.

All functions with prefix @samp{u32\_} operate on UTF-32 strings.

For every function with prefix @samp{u8\_}, operating on UTF-8 strings, there is also a corresponding function with prefix @samp{u16\_}, operating on UTF-16 strings, and a corresponding function with prefix @samp{u32\_}, operating on UTF-32 strings. Their description is analogous; in this documentation we describe only the function that operates on UTF-8 strings, for brevity.

A declaration with a variable @var{n} denotes the three concrete declarations with @var{n} = 8, @var{n} = 16, @var{n} = 32.

All parameters starting with @samp{str} and the parameters of functions starting with @code{u8\_str}/@code{u16\_str}/@code{u32\_str} denote a NUL terminated string.

@cindex return value conventions

Error values are always returned through the @code{errno} variable, usually with a return value that indicates the presence of an error (NULL for functions that return a pointer, or -1 for functions that return an @code{int}).

Functions returning a string result take a @code{(@var{resultbuf}, @var{lengthp})} argument pair. If @var{resultbuf} is not NULL and the result fits into @code{\*@var{lengthp}} units, it is put in @var{resultbuf}, and @var{resultbuf} is returned. Otherwise, a freshly allocated string is returned. In both cases, @code{\*@var{lengthp}} is set to the length (number of units) of the returned string. In case of error, NULL is returned and @code{errno} is set.

```
@include unitypes.texi
#include unistr.texi
#include uniconv.texi
#include unistdio.texi
#include uniname.texi
#include unictype.texi
#include uniwidth.texi
#include unigbrk.texi
#include uniwbrk.texi
#include unilbrk.texi
#include uninorm.texi
#include unicast.texi
#include uniregex.texi
```

```
@node Using the library
@chapter Using the library
```

This chapter explains some practical considerations, regarding the installation and compiler options that are needed in order to use this library.

```
@menu
* Installation::
* Compiler options::
* Include files::
* Autoconf macro::
* Reporting problems::
@end menu
```

```
@node Installation
@section Installation
```

```
@cindex dependencies
Before you can use the library, it must be installed. First, you have to
make sure all dependencies are installed. They are listed in the file
@file{DEPENDENCIES}.
```

```
@cindex installation
Then you can proceed to build and install the library, as described in the
file @file{INSTALL}. For installation on Windows systems, please refer to
the file @file{INSTALL.windows}.
```

```
@node Compiler options
@section Compiler options
```

Let's denote as `@code{LIBUNISTRING_PREFIX}` the value of the `@samp{--prefix}` option that you passed to `@code{configure}` while installing this package. If you didn't pass any `@samp{--prefix}` option, then the package is installed in `@file{/usr/local}`.

Let's denote as `@code{LIBUNISTRING_INCLUDEDIR}` the directory where the include files were installed. This is usually the same as `@code{${LIBUNISTRING_PREFIX@}/include}`. Except that if you passed an `@samp{--includedir}` option to `@code{configure}`, it is the value of that option.

Let's further denote as `@code{LIBUNISTRING_LIBDIR}` the directory where the library itself was installed. This is the value that you passed with the `@samp{--libdir}` option to `@code{configure}`, or otherwise the same as `@code{${LIBUNISTRING_PREFIX@}/lib}`. Recall that when building in 64-bit mode on a 64-bit GNU/Linux system that supports executables in either 64-bit mode or 32-bit mode, you should have used the option `@code{--libdir=${LIBUNISTRING_PREFIX@}/lib64}`.

@cindex compiler options

So that the compiler finds the include files, you have to pass it the option @code{-I\${LIBUNISTRING\_INCLUDEDIR}}.

So that the compiler finds the library during its linking pass, you have to pass it the options @code{-L\${LIBUNISTRING\_LIBDIR} -lunistring}. On some systems, in some configurations, you also have to pass options needed for linking with @code{libiconv}. The autoconf macro @code{gl\_LIBUNISTRING} (see @ref{Autoconf macro}) deals with this particularity.

@node Include files

@section Include files

Most of the include files have been presented in the introduction, see @ref{Introduction}, and subsequent detailed chapters.

Another include file is @code{<unistring/version.h>}. It contains the version number of the libunistring library.

@deftypevr Macro int `_LIBUNISTRING_VERSION`

This constant contains the version of libunistring that is being used at compile time. It encodes the major and minor parts of the version number only. These parts are encoded in the form @code{(major<<8) + minor}.  
@end deftypevr

@deftypevr Constant int `_libunistring_version`

This constant contains the version of libunistring that is being used at run time. It encodes the major and minor parts of the version number only. These parts are encoded in the form @code{(major<<8) + minor}.  
@end deftypevr

It is possible that @code{\_libunistring\_version} is greater than @code{\_LIBUNISTRING\_VERSION}. This can happen when you use @code{libunistring} as a shared library, and a newer, binary backward-compatible version has been installed after your program that uses @code{libunistring} was installed.

@node Autoconf macro

@section Autoconf macro

@cindex autoconf macro

GNU Gnulib provides an autoconf macro that tests for the availability of @code{libunistring}. It is contained in the Gnulib module @samp{libunistring}, see@texnl{}  
@url{http://www.gnu.org/software/gnulib/MODULES.html#module=libunistring}.

@amindex gl\_LIBUNISTRING

The macro is called @code{gl\_LIBUNISTRING}. It searches for an installed libunistring. If found, it sets and AC\_SUBSTs @code{HAVE\_LIBUNISTRING=yes}



and the `LIBUNISTRING` and `LTLIBUNISTRING` variables and augments the `CPPFLAGS` variable, and defines the C macro `HAVE_LIBUNISTRING` to 1. Otherwise, it sets `AC_SUBSTS` `HAVE_LIBUNISTRING=no` and `LIBUNISTRING` and `LTLIBUNISTRING` to empty.

The complexities that `gl_LIBUNISTRING` deals with are the following:

`@itemize @bullet`

`@item`

On some operating systems, in some configurations, `libunistring` depends on `libiconv`, and the options for linking with `libiconv` must be mentioned explicitly on the link command line.

`@item`

GNU `libunistring`, if installed, is not necessarily already in the search path (`CPPFLAGS` for the include file search path, `LD_FLAGS` for the library search path).

`@item`

GNU `libunistring`, if installed, is not necessarily already in the run time library search path. To avoid the need for setting an environment variable like `LD_LIBRARY_PATH`, the macro adds the appropriate run time search path options to the `LIBUNISTRING` variable. This works on most systems.

`@end itemize`

`@node Reporting problems`

`@section Reporting problems`

`@cindex bug reports`

`@cindex bug tracker`

`@cindex mailing list`

If you encounter any problem, please don't hesitate to send a detailed bug report to the `bug-libunistring@gnu.org` mailing list. You can alternatively also use the bug tracker at the project page [url{https://savannah.gnu.org/projects/libunistring}](https://savannah.gnu.org/projects/libunistring).

Please always include the version number of this library, and a short description of your operating system and compilation environment with corresponding version numbers.

For problems that appear while building and installing `libunistring`, for which you don't find the remedy in the `INSTALL` file, please include a description of the options that you passed to the `configure` script.

`@node More functionality`

`@chapter More advanced functionality`

`@cindex bidirectional reordering`

For bidirectional reordering of strings, we recommend the GNU FriBidi library:  
[@url{http://www.fribidi.org/}](http://www.fribidi.org/).

@cindex rendering  
 For the rendering of Unicode strings outside of the context of a given toolkit (KDE/Qt or GNOME/Gtk), we recommend the Pango library:  
[@url{http://www.pango.org/}](http://www.pango.org/).

@include wchar\_t.texi

@node Licenses  
 @appendix Licenses  
 @cindex Licenses

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 @item  
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```

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@node GNU GPL
@appendixsec GNU GENERAL PUBLIC LICENSE
@cindex GPL, GNU General Public License
@cindex License, GNU GPL
@include gpl.texi
@page
@node GNU LGPL
@appendixsec GNU LESSER GENERAL PUBLIC LICENSE
@cindex LGPL, GNU Lesser General Public License
@cindex License, GNU LGPL
@include lgpl.texi
@page
@node GNU FDL
@appendixsec GNU Free Documentation License
@cindex FDL, GNU Free Documentation License
@cindex License, GNU FDL
@include fdl.texi

@node Index
@unnumbered Index

@printindex cp

@bye

@c Local Variables:
@c indent-tabs-mode: nil
@c whitespace-check-buffer-indent: nil
@c End:

=====
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```

```
=====
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```

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```

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  test-crypt-md5.c, test-crypt-sha256.c, test-crypt-sha512.c,
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  test-crypt-nthash.c (adaption of test-crypt-des.c),
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```

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```
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```

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

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```
=====
lzo-2.10: src/lzo_init.c, 5-25
=====
```

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```

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```
Markus F.X.J. Oberhumer
<markus@oberhumer.com>
http://www.oberhumer.com/opensource/lzo/
```

```
=====
main-app-1.0: MIT
rs-sysctl-1.0: MIT
```

```

=====

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=====
mmc-utils-0.1+git: mmc.c, 1-20
=====

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 *
 * Modified to add field firmware update support,
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 *
 * (This code is based on btrfs-progs/btrfs.c.)
 */
=====

```

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```
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```

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```
=====
ncurses-6.2: ncurses/base/version.c, 1-27
=====
```

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```

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```

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

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It is currently maintained by Marco d'Itri <md@linux.it>.

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```
=====
nettle-3.5.1: serpent-decrypt.c, 14-36
nettle-3.5.1: serpent-set-key.c, 14-36
=====
```

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nginx-1.16.1: LICENSE
=====
```

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noto-sans-cjk-1.0: LICENSE_OFL.txt
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=====
nspr-4.25: configure.in, 3-6
=====
```

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=====
nspr-4.25: Makefile.in, 4-38
=====
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```

```
MOD_DEPTH = .
topsrcdir = @top_srcdir@
srcdir = @srcdir@
VPATH = @srcdir@
```

```
include $(MOD_DEPTH)/config/autoconf.mk
```

```
DIRS = config pr lib
```

```
ifdef MOZILLA_CLIENT
# Make nsinstall use absolute symlinks by default for Mozilla OSX builds
# http://bugzilla.mozilla.org/show\_bug.cgi?id=193164
ifeq ($(OS_ARCH), Darwin)
ifndef NSDISTMODE
NSDISTMODE=absolute_symlink
export NSDISTMODE
endif
endif
endif
```

```
DIST_GARBAGE = config.cache config.log config.status
```

```
all:: config.status export
```

```
include $(topsrcdir)/config/rules.mk
```

```
config.status:: configure
ifeq ($(OS_ARCH), WINNT)
sh $(srcdir)/configure --no-create --no-recursion
else
```

```
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=====
```

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

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

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

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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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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.

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

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

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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 source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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#### Appendix: How to Apply These Terms to Your New Libraries

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

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That's all there is to it!

```
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openssl-1.1.1q: LICENSE
=====
```

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

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

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

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

changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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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.)

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



Section 6 states terms for distribution of such executables.

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

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- b) Accompany the work with a written offer, valid for at

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

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```

```
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```
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parted-3.3: COPYING
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```

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

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```
=====
perl-5.30.1: Artistic
=====
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```
=====
pixman-0.38.4: pixman/pixman-matrix.c, 1-21
=====
```

```
/*
```

```
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```

```
*
```

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```

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```

```
*/
```

```
=====
pixman-0.38.4: pixman/pixman-arm-neon-asm.h, 1-24
=====
```

```
/*
```

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* Author:  Siarhei Siamashka (siarhei.siamashka@nokia.com)
*/

```

```

=====
polkit-0.116: COPYING
=====

```

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```
=====
polkit-0.116: src/polkit/polkit.h, 1-20
=====
```

```
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popt-1.16: COPYING
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=====  
 pugixml-1.10: readme.txt, 29-52  
 =====

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 python3-3.8.13: LICENSE  
 =====

#### A. HISTORY OF THE SOFTWARE

=====

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

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

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

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

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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
2.2 and above	2.1.1	2001-now	PSF	yes

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shadow-4.8.1: src/passwd.c, 2-30
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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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```
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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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```
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usbutils-012: lsub.c, 1-1
=====
```

```
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```

```
=====
usbutils-012: lsub.py.in, 2-2
=====
```

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```

```

=====
util-linux-2.35.1: libuuid/COPYING
=====

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=====
util-linux-2.35.1: libmount/COPYING
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```
=====
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=====
```

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=====
wayland-1.18.0: COPYING
=====
```

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```
=====
wayland-1.18.0: src/wayland-server.c, 1-24
=====
```

```
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 */
```

```
=====
xkeyboard-config-2.28: COPYING
=====
```

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=====
xz-5.2.4: COPYING
=====
```

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=====
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```
=====
xz-5.2.4: lib/getopt.c, 1-23
=====
```

```
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NOTE: getopt is now part of the C library, so if you don't know what
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before changing it!
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```
#ifndef _LIBC
```

```
=====  
zlib-1.2.11: zlib.h, 6-23  
=====
```

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- libjpeg-turbo-2.0.4: jpeglib.h, 1-16
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```
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```

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

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```
=====
attr-2.4.48: doc/COPYING
=====
```

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```

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```
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```

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```
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```

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

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```
=====
attr-2.4.48: tools/attr.c, 1-17
```

```
=====
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 */

=====
attr-2.4.48: libattr/libattr.c, 1-17
=====

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=====

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```
=====
avahi-0.7: avahi-common/address.h, 1-25
=====
```

```
#ifndef foaddressshfoo
#define foaddressshfoo
```

```
/**
```

```
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```

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    USA.
```

```
***
```

```
/** \file address.h Definitions and functions to manipulate IP addresses. */
```

```
#include <inttypes.h>
```

```
=====
avahi-0.7: avahi-core/dns.h, 1-23
=====

#ifndef foodnshfoo
#define foodnshfoo

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#include "rr.h"

=====
avahi-0.7: avahi-daemon/main.c, 1-21
=====

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 */
```

```

#ifdef HAVE_CONFIG_H
#include <config.h>

=====
avahi-0.7: avahi-client/client.h, 1-23
=====

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#define fooclienthfoo

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 */

#include <inttypes.h>

=====
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```
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```

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```
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```

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

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```
=====
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binutils-2.38: COPYING3
binutils-2.38: gas/COPYING
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binutils-2.38: bfd/COPYING
coreutils-8.31: COPYING
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gawk-5.0.1: COPYING
gcc-runtime-9.3.0: COPYING3
gmp-6.2.0: COPYING
haveged-1.9.13: COPYING
libgcc-9.3.0: COPYING3
m4-1.4.18: COPYING
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xz-5.2.4: COPYING.GPLv3
```

```
=====
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```

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

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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

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

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

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses

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

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

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

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If 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

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

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

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

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

```
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```

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

That's all there is to it!

```
=====
binutils-2.38: COPYING3.LIB
gcc-runtime-9.3.0: COPYING3.LIB
gmp-6.2.0: COPYING.LESSERv3
libgcc-9.3.0: COPYING3.LIB
libunistring-0.9.10: COPYING.LIB
nettle-3.5.1: COPYING.LESSERv3
=====
```

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```
=====  
binutils-2.38: libiberty/COPYING.LIB  
fribidi-1.0.9: COPYING  
=====
```

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Version 2.1, February 1999

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Preamble

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with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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

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

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

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

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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.

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```
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boost-1.72.0: LICENSE_1_0.txt
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```
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```

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```
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```
<signature of Ty Coon>, 1 April 1989
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```
=====
busybox-1.31.1: archival/libarchive/bz/LICENSE
=====
```

```
bzip2 applet in busybox is based on lightly-modified source
of bzip2 version 1.0.4. bzip2 source is distributed
under the following conditions (copied verbatim from LICENSE file)
=====
```

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

=====  
bzip2-1.0.8: LICENSE, 4-37  
=====

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```
=====
ca-certificates-20211016: debian/copyright
=====
```

```
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Source: http://ftp.debian.org/debian/pool/main/c/ca-certificates/
```

```
Files: debian/*
        examples/*
        Makefile
        mozilla/*
        sbin/*
```

```
Copyright: 2003 Fumitoshi UKAI <ukai@debian.or.jp>
           2009 Philipp Kern <pkern@debian.org>
           2011 Michael Shuler <michael@pbandjelly.org>
           Various Debian Contributors
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```

Files: mozilla/certdata.txt
       mozilla/nssckbi.h
Copyright: Mozilla Contributors
Comment: Original Copyright: 1994-2000 Netscape Communications Corporation
        (certdata.txt <= CVS Revision: 1.82)
        NSS no longer contains explicit copyright. Upstream indicates
        that "Mozilla Contributors" is an appropriate attribution for the
        required Copyright: field in Debian's machine-readable format.
        https://bugzilla.mozilla.org/show_bug.cgi?id=850003
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```
=====
coreutils-8.31: src/ls.c, 1-15
=====
```

```
/* 'dir', 'vdir' and 'ls' directory listing programs for GNU.
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```

```
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```
=====
cpprest-2.10.16: license.txt
=====
```

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Theodore Ts'o  
23-June-2007

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

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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```
<one line to give the library's name and a brief idea of what it does.>  
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```

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```

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

That's all there is to it!

```
=====
e2fsprogs-1.45.7: lib/ext2fs/ext2fs.h, 1-9
=====
```

```
/*
 * ext2fs.h --- ext2fs
 *
 * Copyright (C) 1993, 1994, 1995, 1996 Theodore Ts'o.
 *
 * %Begin-Header%
 * This file may be redistributed under the terms of the GNU Library
 * General Public License, version 2.
 * %End-Header%
```

```
=====
e2fsprogs-1.45.7: lib/e2p/e2p.h, 1-7
=====
```

```
/*
 * e2p.h --- header file for the e2p library
 *
 * %Begin-Header%
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 * %End-Header%
```

```
=====
e2fsprogs-1.45.7: lib/uuid/uuid.h.in, 1-32
=====
```

```
/*
 * Public include file for the UUID library
```

```

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* %End-Header%

```

```

=====
e2fsprogs-1.45.7: lib/uuid/COPYING
util-linux-2.35.1: Documentation/licenses/COPYING.BSD-3-Clause
=====

```

```

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```
=====
e2fsprogs-1.45.7: lib/et/et_name.c, 1-11
=====
```

```
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 *
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```

```
=====
e2fsprogs-1.45.7: lib/ss/ss.h, 1-20
=====
```

```
/*
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 *
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 *
 * This quote is just too good to not pass on:
 *
 * "BTW, I would have rejected the name Story Server because its
 * initials are SS, the name of the secret police in Nazi
 * Germany, probably the most despised pair of letters in western
 * culture." --- http://scriptingnewsarchive.userland.com/1999/12/13
```

\*  
\* Let no one say political correctness isn't dead....

```
=====
expat-2.2.9: COPYING
=====
```

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```
=====
findutils-4.7.0: COPYING
```

```
mpfr-4.0.2: COPYING
=====
```

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Version 3, 29 June 2007

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```
=====
fontconfig-2.13.1: src/fcftreotype.c, 1-45
=====
```

```
/*
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```

```
*/
```

```
/*
```

```
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```

```
*/
```

```
=====  
fontconfig-2.13.1: src/fccache.c, 1671-1686  
=====
```

```
/*
```

```
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
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*
* Equivalent code is available from RSA Data Security, Inc.
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```

```

* 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.
*/

```

```

=====
fpga-manager-script-1.0: fpgautil.c, 1-24
=====

```

```

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

```

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

```
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License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.
```

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License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
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```
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

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

That's all there is to it!

```
=====
gcc-runtime-9.3.0: COPYING.RUNTIME
libgcc-9.3.0: COPYING.RUNTIME
=====
```

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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```
=====
gdbm-1.18.1: COPYING
=====
```

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```
=====
gdk-pixbuf-2.40.0: gdk-pixbuf/gdk-pixbuf.h, 1-26
=====
```

```
/* GdkPixbuf library - Main header file
 *
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 *
 * Authors: Mark Crichton <crichton@gimp.org>
 *          Miguel de Icaza <miguel@gnu.org>
 *          Federico Mena-Quintero <federico@gimp.org>
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 */
```

```
#ifndef GDK_PIXBUF_H
#define GDK_PIXBUF_H
```

```
=====
glib-2.0-2.62.6: glib/glib.h, 4-17
glib-2.0-2.62.6: gmodule/gmodule.h, 4-17
=====
```

```
* This library is free software; you can redistribute it and/or
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*/
```

```
=====  
glib-2.0-2.62.6: glib/pcpre/pcpre.h, 8-36  
=====
```

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```
-----  
=====  
glib-2.0-2.62.6: docs/reference/COPYING  
=====
```

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```
=====
glibc-2.31+git: LICENSES
=====
```

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```
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```

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```
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```

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

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```
=====
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```
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gpgme-1.13.1: src/gpgme.h.in, 1-23
=====
```

```

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 *
 * Generated from gpgme.h.in for @GPGME_CONFIG_HOST@.
 */

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gpgme-1.13.1: src/engine.h, 1-22
=====

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harfbuzz-2.6.4: src/hb-ucd.cc, 1-15
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iproute2-5.5.0: ip/ip.c, 3-8
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iptables-1.8.4: iptables/iptables.c, 13-25
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```
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```

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```
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```

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```
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```

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=====
```

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```

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

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```
=====
keyutils-1.6.1: LICENCE.LGPL
=====
```

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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,



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

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

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

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

5. A program that contains no derivative of any portion of the

Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

```
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it under the terms of the GNU General Public License as published by  
the Free Software Foundation, either version 3 of the License, or
```

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

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```
=====
libassuan-2.5.3: src/assuan.c, 1-20
=====
```

```
/* assuan.c - Global interface (not specific to context).
 * Copyright (C) 2009 Free Software Foundation, Inc.
 * Copyright (C) 2001, 2002, 2012, 2013 g10 Code GmbH
 *
 * This file is part of Assuan.
 *
 * Assuan is free software; you can redistribute it and/or modify it
 * under the terms of the GNU Lesser General Public License as
 * published by the Free Software Foundation; either version 2.1 of
 * the License, or (at your option) any later version.
```



```

*
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*
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* License along with this program; if not, see <http://www.gnu.org/licenses/>.
* SPDX-License-Identifier: LGPL-2.1+
*/

=====
libassuan-2.5.3: src/assuan-defs.h, 1-20
=====

/* assuan-defs.h - Internal definitions to Assuan
* Copyright (C) 2001, 2002, 2004, 2005, 2007, 2008,
*           2009, 2010 Free Software Foundation, Inc.
*
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*/

=====
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libbytesize-2.2: LICENSE
=====

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```

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```

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```

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```

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

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

That's all there is to it!

```
=====
libcap-2.32: License
=====
```

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

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

```
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MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
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```

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51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

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

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

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

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

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

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

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

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proprietary programs. If your program is a subroutine library, you may  
consider it more useful to permit linking proprietary applications with the  
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Public License instead of this License.

```
=====
libcroco-0.6.13: COPYING
=====
```

```
GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991
```

```
Copyright (C) 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
```

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

Preamble

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

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

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

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

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no

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

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

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```
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```

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```
=====
libcroc0-0.6.13: src/cr-rgb.c, 1-22
=====
```

```
/* -*- Mode: C; indent-tabs-mode:nil; c-basic-offset: 8 -*- */
```

```
/*
```

```
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```

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*
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=====
libcroco-0.6.13: tests/cr-test-utils.c, 1-21
=====

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 * USA
 */

#include <string.h>

=====
libdaemon-0.14: libdaemon/daemon.h, 9-21
=====

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```

```
=====
libdrm-2.4.101: xf86drm.c, 9-32
=====
```

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 */
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```

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```
=====
libevdev-1.8.0: libevdev/libevdev.h, 1-21
=====
```



```

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```

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Ty Coon, President of Vice
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```
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libgrypt-1.8.5: LICENSES
```

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```
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```

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- cipher/sha256-avx2-bmi2-amd64.S
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- cipher/sha512-avx-amd64.S
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- random/jitterentropy.h  
- random/rndjent.c (plus common Libgcrypt copyright holders)
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```
=====
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=====
```

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```

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```
=====
libidn2-2.3.0: src/idn2.c, 1-16
=====
```

```
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```

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```
*/
```

```
=====
libidn2-2.3.0: lib/idn2.h.in, 1-27
=====
```

```
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=====  
libjpeg-turbo-2.0.4: cdjpeg.h, 1-13  
=====

```
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 *
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 *
 * This file contains common declarations for the sample applications
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 */
```

=====  
libjpeg-turbo-2.0.4: jpeglib.h, 1-16  
=====

```
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 *
 * This file defines the application interface for the JPEG library.
 * Most applications using the library need only include this file,
 * and perhaps jerror.h if they want to know the exact error codes.
 */
```

=====  
libjpeg-turbo-2.0.4: djpeg.c, 1-11  
=====

```
=====  
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-----

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

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=====
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The basic library functions are written in C and are freestanding. Also included in the distribution is a just-in-time compiler that can be used to optimize pattern matching. This is an optional feature that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
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Cambridge, England.

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PCRE2 JUST-IN-TIME COMPILATION SUPPORT

-----

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STACK-LESS JUST-IN-TIME COMPILER  
-----

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libpthread-stubs-0.4: COPYING  
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```
=====
librsvg-2.40.21: rsvg.h, 3-24
=====
```

```
/*
```

```
  rsvg.h: SAX-based renderer for SVG files into a GdkPixbuf.
```

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```

```
  Author: Raph Levien <raph@artofcode.com>
```

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```

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```



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 */

=====
libtirpc-1.2.6: src/netname.c, 1-27
rpcbind-1.2.5: src/rpcinfo.c, 1-27
=====

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```

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=====
libunistring-0.9.10: README, 45-65
=====

```

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```

=====
libunistring-0.9.10: doc/libunistring.texi
=====

```

```

\input texinfo          @c -*-texinfo-*-
@comment %**start of header
@setfilename libunistring.info
@documentencoding UTF-8
@settitle GNU libunistring
@finalout
@c Indices:
@c  am = autoconf macro  @amindex
@c  cp = concept         @cindex
@c  fn = function       @findex
@c  tp = type           @tindex
@c Unused predefined indices:

```

```

@c ky = keystroke @kindex
@c pg = program @pindex
@c vr = variable @vindex
@defcodeindex am
@syncodeindex am cp
@syncodeindex fn cp
@syncodeindex tp cp
@ifclear texi2html
@firstparagraphindent insert
@end ifclear
@c texi2html-1.76 does not support @arrow{}.
@ifset texi2html
@macro arrow{}
→
@end macro
@end ifset
@comment %**end of header

@include version.texi

@c Location of the POSIX specification on the web.
@set POSIXURL http://pubs.opengroup.org/onlinepubs/9699919799

@c Macro for referencing a POSIX header.
@ifinfo
@macro posixheader{header}
@code{<\header>}
@end macro
@end ifinfo
@ifnotinfo
@macro posixheader{header}
@uref{@value{POSIXURL}/basedefs/\header\.html,,@code{<\header>}}
@end macro
@end ifnotinfo

@c Macro for referencing a POSIX function.
@c We don't write it as func(), see section "GNU Manuals" of the
@c GNU coding standards.
@ifinfo
@macro posixfunc{func}
@code{\func\}
@end macro
@end ifinfo
@ifnotinfo
@macro posixfunc{func}
@uref{@value{POSIXURL}/functions/\func\.html,,@code{\func\}}
@end macro
@end ifnotinfo

@c Macro for referencing a normal function.

```

```
@c We don't write it as func(), see section "GNU Manuals" of the
@c GNU coding standards.
@macro func{func}
@code{\func\}
@end macro

@c Macro for an advisory ragged line break in TeX mode.
@c Needed because there are long unbreakable pieces of text (such as URLs or
@c formulas), TeX is too shy to move them to a new line. TeX considers only
@c two choices: a line break in aligned mode (which it rejects due to aesthetic
@c reasons) and writing into the margin. What we want in many cases is a line
@c break without filling the first line. Like what @* delivers. But we want it
@c only when needed, so that it disappears when unrelated changes in the same
@c paragraph cause a line break in a nearby position. And we need it only in
@c TeX mode. info and HTML modes are fine.
@c This trick is from Karl Berry.
@iftex
@macro texnl
@hfil@penalty9000@hfilneg
@end macro
@end iftex
@ifnottex
@macro texnl
@end macro
@end ifnottex

@ifinfo
@dircategory Software development
@direntry
* GNU libunistring: (libunistring).      Unicode string library.
@end direntry
@end ifinfo

@ifinfo
This manual is for GNU libunistring.

@ignore
@c This was: @copying but it triggers a makeinfo 4.13 bug
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@end ignore

@end ifinfo

@titlepage

@title GNU libunistring, version @value{VERSION}

@subtitle updated @value{UPDATED}

@subtitle Edition @value{EDITION}, @value{UPDATED}

@author Bruno Haible

@ifnohtml

@page

@vskip 0pt plus 1filll

@c @insertcopying

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@end ifnohtml

@end titlepage

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@node Top

@top GNU libunistring

@end ifnottex

```

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* Conventions::          Conventions used in this manual
* unitypes.h::           Elementary types
* unistr.h::             Elementary Unicode string functions
* uniconv.h::            Conversions between Unicode and encodings
* unistdio.h::           Output with Unicode strings
* uniname.h::            Names of Unicode characters
* unictype.h::           Unicode character classification and properties
* uniwidth.h::           Display width
* unigbrk.h::            Grapheme cluster breaking
* uniwbrk.h::            Word breaks in strings
* unilbrk.h::            Line breaking
* uninorm.h::            Normalization forms
* unicase.h::            Case mappings
* uniregex.h::           Regular expressions
* Using the library::    How to link with the library and use it?
* More functionality::   More advanced functionality
* The wchar_t mess::     Why @code{wchar_t *} strings are useless
* Licenses::             Licenses

* Index::                General Index

```

```
@detailmenu
```

```
--- The Detailed Node Listing ---
```

```
Introduction
```

```

* Unicode::              What is Unicode?
* Unicode and i18n::     Unicode and internationalization
* Locale encodings::     What is a locale encoding?
* In-memory representation:: How to represent strings in memory?
* char * strings::       What to keep in mind with @code{char *} strings
* Unicode strings::      How are Unicode strings represented?

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```
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```

```

* Elementary string checks::
* Elementary string conversions::
* Elementary string functions::
* Elementary string functions with memory allocation::
* Elementary string functions on NUL terminated strings::

```

```
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* Creating Unicode strings::
* Copying Unicode strings::
* Comparing Unicode strings::
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- \* Iterating over a NUL terminated Unicode string::
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- \* Bidi class::
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- \* Digit value::
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- \* Properties::
- \* Scripts::
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- \* Grapheme cluster break property::

uniwbrk.h

- \* Word breaks in a string::
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uninorm.h

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- \* Installation::
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- \* Reporting problems::

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@end detailmenu

@end menu

@node Introduction

@chapter Introduction

This library provides functions for manipulating Unicode strings and for manipulating C strings according to the Unicode standard.

It consists of the following parts:

- @table @code
- @item <unistr.h>  
elementary string functions
- @item <unicov.h>  
conversion from/to legacy encodings
- @item <unistdio.h>  
formatted output to strings
- @item <uniname.h>  
character names
- @item <unictype.h>



```

character classification and properties
@item <uniwidth.h>
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@item <unigbrk.h>
grapheme cluster breaks
@item <uniwbrk.h>
word breaks
@item <unilbrk.h>
line breaking algorithm
@item <uninorm.h>
normalization (composition and decomposition)
@item <unicase.h>
case folding
@item <uniregex.h>
regular expressions (not yet implemented)
@end table

@cindex use cases
@cindex value, of libunistring
libunistring is for you if your application involves non-trivial text
processing, such as upper/lower case conversions, line breaking, operations
on words, or more advanced analysis of text. Text provided by the user can,
in general, contain characters of all kinds of scripts. The text processing
functions provided by this library handle all scripts and all languages.

libunistring is for you if your application already uses the ISO C / POSIX
@posixheader{ctype.h}, @posixheader{wctype.h} functions and the text it
operates on is provided by the user and can be in any language.

libunistring is also for you if your application uses Unicode strings as
internal in-memory representation.

@menu
* Unicode::                What is Unicode?
* Unicode and i18n::       Unicode and internationalization
* Locale encodings::       What is a locale encoding?
* In-memory representation:: How to represent strings in memory?
* char * strings::         What to keep in mind with @code{char *} strings
* Unicode strings::        How are Unicode strings represented?
@end menu

@node Unicode
@section Unicode

@cindex Unicode
Unicode is a standardized repertoire of characters that contains characters
from all scripts of the world, from Latin letters to Chinese ideographs
and Babylonian cuneiform glyphs. It also specifies how these characters
are to be rendered on a screen or on paper, and how common text processing
(word selection, line breaking, uppercasing of page titles etc.) is supposed

```

to behave on Unicode text.

Unicode also specifies three ways of storing sequences of Unicode characters in a computer whose basic unit of data is an 8-bit byte:

```
@cindex UTF-8
@cindex UTF-16
@cindex UTF-32
@cindex UCS-4
@table @asis
@item UTF-8
```

Every character is represented as 1 to 4 bytes.

```
@item UTF-16
```

Every character is represented as 1 to 2 units of 16 bits.

```
@item UTF-32, a.k.a@. UCS-4
```

Every character is represented as 1 unit of 32 bits.

```
@end table
```

For encoding Unicode text in a file, UTF-8 is usually used. For encoding Unicode strings in memory for a program, either of the three encoding forms can be reasonably used.

Unicode is widely used on the web. Prior to the use of Unicode, web pages were in many different encodings (ISO-8859-1 for English, French, Spanish, ISO-8859-2 for Polish, ISO-8859-7 for Greek, KOI8-R for Russian, GB2312 or BIG5 for Chinese, ISO-2022-JP-2 or EUC-JP or Shift\_JIS for Japanese, and many many others). It was next to impossible to create a document that contained Chinese and Polish text in the same document. Due to the many encodings for Japanese, even the processing of pure Japanese text was error prone.

References:

```
@itemize @bullet
```

```
@item
```

The Unicode standard:[@texnl{} @url{http://www.unicode.org/}](http://www.unicode.org/)

```
@item
```

Definition of UTF-8:[@texnl{} @url{http://www.rfc-editor.org/rfc/rfc3629.txt}](http://www.rfc-editor.org/rfc/rfc3629.txt)

```
@item
```

Definition of UTF-16:[@texnl{} @url{http://www.rfc-editor.org/rfc/rfc2781.txt}](http://www.rfc-editor.org/rfc/rfc2781.txt)

```
@item
```

Markus Kuhn's UTF-8 and Unicode FAQ:[@texnl{} @url{http://www.cl.cam.ac.uk/~mgk25/unicode.html}](http://www.cl.cam.ac.uk/~mgk25/unicode.html)

```
@url{http://www.cl.cam.ac.uk/~mgk25/unicode.html}
```

```
@end itemize
```

```
@node Unicode and i18n
```

```
@section Unicode and Internationalization
```

```
@cindex internationalization
```

Internationalization is the process of changing the source code of a program so that it can meet the expectations of users in any culture, if culture specific data (translations, images etc.) are provided.

Use of Unicode is not strictly required for internationalization, but it makes internationalization much easier, because operations that need to look at specific characters (like hyphenation, spell checking, or the automatic conversion of double-quotes to opening and closing double-quote characters) don't need to consider multiple possible encodings of the text.

Use of Unicode also enables multilingualization: the ability of having text in multiple languages present in the same document or even in the same line of text.

But use of Unicode is not everything. Internationalization usually consists of four features:

@itemize @bullet

@item

Use of Unicode where needed for text processing. This is what this library is for.

@item

Use of message catalogs for messages shown to the user, This is what GNU gettext is about.

@item

Use of locale specific conventions for date and time formats, for numeric formatting, or for sorting of text. This can be done adequately with the POSIX APIs and the implementation of locales in the GNU C library.

@item

In graphical user interfaces, adapting the GUI to the default text direction of the current locale (see

[https://en.wikipedia.org/wiki/Right-to-left,right-to-left\\_languages](https://en.wikipedia.org/wiki/Right-to-left,right-to-left_languages)).

@end itemize

@node Locale encodings

@section Locale encodings

@cindex locale

A locale is a set of cultural conventions. According to POSIX, for a program, at any moment, there is one locale being designated as the ``current locale''. (Actually, POSIX supports also one locale per thread, but this feature is not yet universally implemented and not widely used.)

@cindex locale categories

The locale is partitioned into several aspects, called the ``categories'' of the locale. The main various aspects are:

@itemize @bullet

@item

The character encoding and the character properties. This is the @code{LC\_CTYPE} category.

@item

The sorting rules for text. This is the @code{LC\_COLLATE} category.

@item

The language specific translations of messages. This is the @code{LC\_MESSAGES} category.

@item

The formatting rules for numbers, such as the decimal separator. This is the `{LC_NUMERIC}` category.

@item

The formatting rules for amounts of money. This is the `{LC_MONETARY}` category.

@item

The formatting of date and time. This is the `{LC_TIME}` category.

@end itemize

@cindex locale encoding

In particular, the `{LC_CTYPE}` category of the current locale determines the character encoding. This is the encoding of `{char *}` strings.

We also call it the `'locale encoding'`. GNU `libunistring` has a function, `{func{locale_charset}}`, that returns a standardized (platform independent) name for this encoding.

All locale encodings used on glibc systems are essentially ASCII compatible: Most graphic ASCII characters have the same representation, as a single byte, in that encoding as in ASCII.

Among the possible locale encodings are UTF-8 and GB18030. Both allow to represent any Unicode character as a sequence of bytes. UTF-8 is used in most of the world, whereas GB18030 is used in the People's Republic of China, because it is backward compatible with the GB2312 encoding that was used in this country earlier.

The legacy locale encodings, ISO-8859-15 (which supplanted ISO-8859-1 in most of Europe), ISO-8859-2, KOI8-R, EUC-JP, etc., are still in use in some places, though.

UTF-16 and UTF-32 are not used as locale encodings, because they are not ASCII compatible.

@node In-memory representation

@section Choice of in-memory representation of strings

There are three ways of representing strings in memory of a running program.

@itemize @bullet

@item

As `{samp{char *}}` strings. Such strings are represented in locale encoding. This approach is employed when not much text processing is done by the program. When some Unicode aware processing is to be done, a string is converted to Unicode on the fly and back to locale encoding afterwards.

@item

As UTF-8 or UTF-16 or UTF-32 strings. This implies that conversion from locale encoding to Unicode is performed on input, and in the opposite direction on output. This approach is employed when the program does a significant amount of text processing, or when the program has multiple threads operating on the same data but in different locales.

```
@item
As @samp{wchar_t *}, a.k.a@. ``wide strings''. This approach is misguided,
see @ref{The wchar_t mess}.
@end itemize
```

Of course, a @samp{char \*} string can, in some cases, be encoded in UTF-8. You will use the data type depending on what you can guarantee about how it's encoded: If a string is encoded in the locale encoding, or if you don't know how it's encoded, use @samp{char \*}. If, on the other hand, you can @emph{guarantee} that it is UTF-8 encoded, then you can use the UTF-8 string type, @code{uint8\_t \*}, for it.

The five types @code{char \*}, @code{uint8\_t \*}, @code{uint16\_t \*}, @code{uint32\_t \*}, and @code{wchar\_t \*} are incompatible types at the C level. Therefore, @samp{gcc -Wall} will produce a warning if, by mistake, your code contains a mismatch between these types. In the context of using GNU libunistring, even a warning about a mismatch between @code{char \*} and @code{uint8\_t \*} is a sign of a bug in your code that you should not try to silence through a cast.

```
@node char * strings
@section @samp{char *} strings
```

```
@cindex C string functions
```

The classical C strings, with its C library support standardized by ISO C and POSIX, can be used in internationalized programs with some precautions. The problem with this API is that many of the C library functions for strings don't work correctly on strings in locale encodings, leading to bugs that only people in some cultures of the world will experience.

```
@cindex locale, multibyte
```

The first problem with the C library API is the support of multibyte locales. According to the locale encoding, in general, every character is represented by one or more bytes (up to 4 bytes in practice --- but use @code{MB\_LEN\_MAX} instead of the number 4 in the code).

When every character is represented by only 1 byte, we speak of an ``unibyte locale'', otherwise of a ``multibyte locale''. It is important to realize that the majority of Unix installations nowadays use UTF-8 or GB18030 as locale encoding; therefore, the majority of users are using multibyte locales.

```
@cindex char, type
```

The important fact to remember is:

```
@cartouche
@emph{A @samp{char} is a byte, not a character.}
@end cartouche
```

As a consequence:

```
@itemize @bullet
```

@item  
The @posixfunc{ctype.h} API is useless in this context; it does not work in multibyte locales.

@item  
The @posixfunc{strlen} function does not return the number of characters in a string. Nor does it return the number of screen columns occupied by a string after it is output. It merely returns the number of @emph{bytes} occupied by a string.

@item  
Truncating a string, for example, with @posixfunc{strncpy}, can have the effect of truncating it in the middle of a multibyte character. Such a string will, when output, have a garbled character at its end, often represented by a hollow box.

@item  
@posixfunc{strchr} and @posixfunc{strrchr} do not work with multibyte strings if the locale encoding is GB18030 and the character to be searched is a digit.

@item  
@posixfunc{strstr} does not work with multibyte strings if the locale encoding is different from UTF-8.

@item  
@posixfunc{strcspn}, @posixfunc{strpbrk}, @posixfunc{strspn} cannot work correctly in multibyte locales: they assume the second argument is a list of single-byte characters. Even in this simple case, they do not work with multibyte strings if the locale encoding is GB18030 and one of the characters to be searched is a digit.

@item  
@posixfunc{strsep} and @posixfunc{strtok\_r} do not work with multibyte strings unless all of the delimiter characters are ASCII characters < 0x30.

@item  
The @posixfunc{strcasemp}, @posixfunc{strncasemp}, and @posixfunc{strcasestr} functions do not work with multibyte strings.

@end itemize

The workarounds can be found in GNU glibc  
@url{http://www.gnu.org/software/glibc/}.

@itemize @bullet

@item  
glibc has modules @samp{mbchar}, @samp{mbiter}, @samp{mbuiter} that represent multibyte characters and allow to iterate across a multibyte string with the same ease as through a unibyte string.

@item  
glibc has functions @func{mbslen} and @func{mbswidth} that can be used instead of @posixfunc{strlen} when the number of characters or the number of screen columns of a string is requested.

@item  
glibc has functions @func{mbschr} and @func{mbsrchr} that are like @posixfunc{strchr} and @posixfunc{strrchr}, but work in multibyte locales.

@item  
glibc has a function @func{mbsstr}, like @posixfunc{strstr}, but works

in multibyte locales.

@item

gnulib has functions @func{mbscspn}, @func{mbstok\_r}, @func{mbsstrn} that are like @posixfunc{strcspn}, @posixfunc{strtok\_r}, @posixfunc{strspn}, but work in multibyte locales.

@item

gnulib has functions @func{mbssep} and @func{mbstok\_r} that are like @posixfunc{strsep} and @posixfunc{strtok\_r} but work in multibyte locales.

@item

gnulib has functions @func{mbscasecmp}, @func{mbsncascasecmp}, @func{mbstok\_r}, and @func{mbsstrn} that are like @posixfunc{strcasecmp}, @posixfunc{strncascasecmp}, and @posixfunc{strcasestr}, but work in multibyte locales. Still, the function @code{ulc\_casecmp} is preferable to these functions; see below.

@end itemize

The second problem with the C library API is that it has some assumptions built-in that are not valid in some languages:

@itemize @bullet

@item

It assumes that there are only two forms of every character: uppercase and lowercase. This is not true for Croatian, where the character @sc{LETTER DZ WITH CARON} comes in three forms:

@sc{LATIN CAPITAL LETTER DZ WITH CARON} (DZ),

@sc{LATIN CAPITAL LETTER D WITH SMALL LETTER Z WITH CARON} (Dz),

@sc{LATIN SMALL LETTER DZ WITH CARON} (dz).

@item

It assumes that uppercasing of 1 character leads to 1 character. This is not true for German, where the @sc{LATIN SMALL LETTER SHARP S}, when uppercased, becomes @samp{SS}.

@item

It assumes that there is 1:1 mapping between uppercase and lowercase forms. This is not true for the Greek sigma: @sc{GREEK CAPITAL LETTER SIGMA} is the uppercase of both @sc{GREEK SMALL LETTER SIGMA} and @sc{GREEK SMALL LETTER FINAL SIGMA}.

@item

It assumes that the upper/lowercase mappings are position independent. This is not true for the Greek sigma and the Lithuanian i.

@end itemize

The correct way to deal with this problem is

@enumerate

@item

to provide functions for titlecasing, as well as for upper- and lowercasing,

@item

to view case transformations as functions that operates on strings, rather than on characters.

@end enumerate

This is implemented in this library, through the functions declared in `<unicode.h>`, see [@ref{unicode.h}](#).

@node Unicode strings  
@section Unicode strings

libunistring supports Unicode strings in three representations:

@cindex UTF-8, strings

@cindex UTF-16, strings

@cindex UTF-32, strings

@itemize @bullet

@item

UTF-8 strings, through the type `@samp{uint8_t *}`. The units are bytes (`@code{uint8_t}`).

@item

UTF-16 strings, through the type `@samp{uint16_t *}`, The units are 16-bit memory words (`@code{uint16_t}`).

@item

UTF-32 strings, through the type `@samp{uint32_t *}`. The units are 32-bit memory words (`@code{uint32_t}`).

@end itemize

As with C strings, there are two variants:

@itemize @bullet

@item

Unicode strings with a terminating NUL character are represented as a pointer to the first unit of the string. There is a unit containing a 0 value at the end. It is considered part of the string for all memory allocation purposes, but is not considered part of the string for all other logical purposes.

@item

Unicode strings where embedded NUL characters are allowed. These are represented by a pointer to the first unit and the number of units (not bytes!) of the string. In this setting, there is no trailing zero-valued unit used as ```end marker''`.

@end itemize

@node Conventions  
@chapter Conventions

This chapter explains conventions valid throughout the libunistring library.

@cindex argument conventions

Variables of type `@code{char *}` denote C strings in locale encoding. See [@ref{Locale encodings}](#).

Variables of type `@code{uint8_t *}` denote UTF-8 strings. Their units are bytes.

Variables of type `@code{uint16_t *}` denote UTF-16 strings, without byte



order mark. Their units are 2-byte words.

Variables of type `@code{uint32_t *}` denote UTF-32 strings, without byte order mark. Their units are 4-byte words.

Argument pairs `@code{(@var{s}, @var{n})}` denote a string `@code{@var{s}[0..@var{n}-1]}` with exactly `@var{n}` units.

All functions with prefix `@samp{ulc_}` operate on C strings in locale encoding.

All functions with prefix `@samp{u8_}` operate on UTF-8 strings.

All functions with prefix `@samp{u16_}` operate on UTF-16 strings.

All functions with prefix `@samp{u32_}` operate on UTF-32 strings.

For every function with prefix `@samp{u8_}`, operating on UTF-8 strings, there is also a corresponding function with prefix `@samp{u16_}`, operating on UTF-16 strings, and a corresponding function with prefix `@samp{u32_}`, operating on UTF-32 strings. Their description is analogous; in this documentation we describe only the function that operates on UTF-8 strings, for brevity.

A declaration with a variable `@var{n}` denotes the three concrete declarations with `@var{n} = 8`, `@var{n} = 16`, `@var{n} = 32`.

All parameters starting with `@samp{str}` and the parameters of functions starting with `@code{u8_str}/@code{u16_str}/@code{u32_str}` denote a NUL terminated string.

`@cindex` return value conventions

Error values are always returned through the `@code{errno}` variable, usually with a return value that indicates the presence of an error (NULL for functions that return a pointer, or -1 for functions that return an `@code{int}`).

Functions returning a string result take a

`@code{(@var{resultbuf}, @var{lengthp})}`

argument pair. If `@var{resultbuf}` is not NULL and the result fits into `@code{*@var{lengthp}}` units, it is put in `@var{resultbuf}`, and `@var{resultbuf}` is returned. Otherwise, a freshly allocated string is returned. In both cases, `@code{*@var{lengthp}}` is set to the length (number of units) of the returned string. In case of error, NULL is returned and `@code{errno}` is set.

`@include unitypes.texi`

`@include unistr.texi`

`@include uniconv.texi`

`@include unistdio.texi`

```
@include uniname.texi
@include unictype.texi
@include uniwidth.texi
@include unigbrk.texi
@include uniwbrk.texi
@include unilbrk.texi
@include uninorm.texi
@include unicase.texi
@include uniregex.texi
```

```
@node Using the library
@chapter Using the library
```

This chapter explains some practical considerations, regarding the installation and compiler options that are needed in order to use this library.

```
@menu
* Installation::
* Compiler options::
* Include files::
* Autoconf macro::
* Reporting problems::
@end menu
```

```
@node Installation
@section Installation
```

```
@cindex dependencies
Before you can use the library, it must be installed. First, you have to make sure all dependencies are installed. They are listed in the file @file{DEPENDENCIES}.
```

```
@cindex installation
Then you can proceed to build and install the library, as described in the file @file{INSTALL}. For installation on Windows systems, please refer to the file @file{INSTALL.windows}.
```

```
@node Compiler options
@section Compiler options
```

Let's denote as @code{LIBUNISTRING\_PREFIX} the value of the @samp{--prefix} option that you passed to @code{configure} while installing this package. If you didn't pass any @samp{--prefix} option, then the package is installed in @file{/usr/local}.

Let's denote as @code{LIBUNISTRING\_INCLUDEDIR} the directory where the include files were installed. This is usually the same as @code{\${LIBUNISTRING\_PREFIX}/include}. Except that if you passed an @samp{--includedir} option to @code{configure}, it is the value of that

option.

Let's further denote as `LIBUNISTRING_LIBDIR` the directory where the library itself was installed. This is the value that you passed with the `--libdir` option to `configure`, or otherwise the same as `$(LIBUNISTRING_PREFIX)/lib`. Recall that when building in 64-bit mode on a 64-bit GNU/Linux system that supports executables in either 64-bit mode or 32-bit mode, you should have used the option `--libdir=$(LIBUNISTRING_PREFIX)/lib64`.

`index` compiler options

So that the compiler finds the include files, you have to pass it the option `-I$(LIBUNISTRING_INCLUDEDIR)`.

So that the compiler finds the library during its linking pass, you have to pass it the options `-L$(LIBUNISTRING_LIBDIR) -lunistring`. On some systems, in some configurations, you also have to pass options needed for linking with `libiconv`. The `autoconf` macro `gl_LIBUNISTRING` (see [Autoconf macro](#)) deals with this particularity.

`node` Include files

`section` Include files

Most of the include files have been presented in the introduction, see [Introduction](#), and subsequent detailed chapters.

Another include file is `<unistring/version.h>`. It contains the version number of the `libunistring` library.

`deftypevr` Macro `int _LIBUNISTRING_VERSION`

This constant contains the version of `libunistring` that is being used at compile time. It encodes the major and minor parts of the version number only. These parts are encoded in the form `(major<<8) + minor`.  
`end deftypevr`

`deftypevr` Constant `int _libunistring_version`

This constant contains the version of `libunistring` that is being used at run time. It encodes the major and minor parts of the version number only. These parts are encoded in the form `(major<<8) + minor`.  
`end deftypevr`

It is possible that `_libunistring_version` is greater than `_LIBUNISTRING_VERSION`. This can happen when you use `libunistring` as a shared library, and a newer, binary backward-compatible version has been installed after your program that uses `libunistring` was installed.

`node` Autoconf macro

`section` Autoconf macro

@cindex autoconf macro  
GNU Gnulib provides an autoconf macro that tests for the availability of @code{libunistring}. It is contained in the Gnulib module @samp{libunistring}, see@texnl{}  
@url{http://www.gnu.org/software/gnulib/MODULES.html#module=libunistring}.

@amindex gl\_LIBUNISTRING  
The macro is called @code{gl\_LIBUNISTRING}. It searches for an installed libunistring. If found, it sets and AC\_SUBSTs @code{HAVE\_LIBUNISTRING=yes} and the @code{LIBUNISTRING} and @code{LTLIBUNISTRING} variables and augments the @code{CPPFLAGS} variable, and defines the C macro @code{HAVE\_LIBUNISTRING} to 1. Otherwise, it sets and AC\_SUBSTs @code{HAVE\_LIBUNISTRING=no} and @code{LIBUNISTRING} and @code{LTLIBUNISTRING} to empty.

The complexities that @code{gl\_LIBUNISTRING} deals with are the following:

@itemize @bullet

@item

On some operating systems, in some configurations, libunistring depends on @code{libiconv}, and the options for linking with libiconv must be mentioned explicitly on the link command line.

@item

GNU @code{libunistring}, if installed, is not necessarily already in the search path (@code{CPPFLAGS} for the include file search path, @code{LDFLAGS} for the library search path).

@item

GNU @code{libunistring}, if installed, is not necessarily already in the run time library search path. To avoid the need for setting an environment variable like @code{LD\_LIBRARY\_PATH}, the macro adds the appropriate run time search path options to the @code{LIBUNISTRING} variable. This works on most systems.

@end itemize

@node Reporting problems

@section Reporting problems

@cindex bug reports

@cindex bug tracker

@cindex mailing list

If you encounter any problem, please don't hesitate to send a detailed bug report to the @code{bug-libunistring@gnu.org} mailing list. You can alternatively also use the bug tracker at the project page  
@url{https://savannah.gnu.org/projects/libunistring}.

Please always include the version number of this library, and a short description of your operating system and compilation environment with

corresponding version numbers.

For problems that appear while building and installing `libunistring`, for which you don't find the remedy in the `INSTALL` file, please include a description of the options that you passed to the `configure` script.

`@node More functionality`  
`@chapter More advanced functionality`

`@index bidirectional reordering`  
 For bidirectional reordering of strings, we recommend the GNU FriBidi library:  
`@url{http://www.fribidi.org/}`.

`@index rendering`  
 For the rendering of Unicode strings outside of the context of a given toolkit (KDE/Qt or GNOME/Gtk), we recommend the Pango library:  
`@url{http://www.pango.org/}`.

`@include wchar_t.texi`

`@node Licenses`  
`@appendix Licenses`  
`@index Licenses`

The files of this package are covered by the licenses indicated in each particular file or directory. Here is a summary:

`@itemize @bullet`  
`@item`  
 The `libunistring` library and its header files are dual-licensed under "the GNU LGPLv3+ or the GNU GPLv2". This means, you can use it under either  
`@itemize @bullet`  
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`@end itemize`  
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`@*`  
 You can find the GNU GPL version 2 at  
`@url{https://www.gnu.org/licenses/old-licenses/gpl-2.0.html}`.  
`@*`  
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```

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@end itemize

@menu
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* GNU LGPL::        GNU Lesser General Public License
* GNU FDL::         GNU Free Documentation License
@end menu

@page
@node GNU GPL
@appendixsec GNU GENERAL PUBLIC LICENSE
@cindex GPL, GNU General Public License
@cindex License, GNU GPL
@include gpl.texi
@page
@node GNU LGPL
@appendixsec GNU LESSER GENERAL PUBLIC LICENSE
@cindex LGPL, GNU Lesser General Public License
@cindex License, GNU LGPL
@include lgpl.texi
@page
@node GNU FDL
@appendixsec GNU Free Documentation License
@cindex FDL, GNU Free Documentation License
@cindex License, GNU FDL
@include fdl.texi

@node Index
@unnumbered Index

@printindex cp

```

@bye

```
@c Local Variables:
@c indent-tabs-mode: nil
@c whitespace-check-buffer-indent: nil
@c End:
```

```
=====
libunwind-1.3.1: COPYING
=====
```

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```

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libxml2-2.9.10: trio.c, 5-14  
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linux-firmware-20220610: LICENCE.Abilis
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linux-firmware-20220610: LICENCE.agere
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```
agere_sta_fw.bin -- 9.48 Hermes I
agere_ap_fw.bin  -- 9.48 Hermes I
```

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The 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,

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Intellectual Property Licensing Manager  
Agere

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linux-firmware-20220610: LICENCE.ca0132
=====
```

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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. \*/

=====  
linux-firmware-20220610: LICENCE.cavium  
=====

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```
=====  
linux-firmware-20220610: LICENCE.chelsio_firmware  
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```

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Chelsio Communication Terminator 4/5 ethernet controller firmware

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```
=====  
linux-firmware-20220610: LICENCE.cw1200  
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```

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linux-firmware-20220610: LICENCE.cypress
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```
=====
linux-firmware-20220610: LICENSE.dib0700
=====
```

Firmware provided by Patrick Boettcher <pboettcher@dibcom.fr> to Devin Heitmueller <dheitmueller@kernellabs.com> on October 8, 2009.

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linux-firmware-20220610: LICENCE.e100
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linux-firmware-20220610: LICENCE.ene_firmware
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```
=====  
linux-firmware-20220610: LICENCE.go7007  
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```
The README file from the original package from Micronas appears below. Only  
the part about the firmware redistribution in section 0 is relevant, all  
other sections are completely obsolete.
```

-----  
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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## 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 Cypruss EZ-USB chip using fxload and for loading firmware into the driver using the firmware agent.

## 2. COMPILING AND INSTALLING THE DRIVER

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

```
$ make
```

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

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

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

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

```
$ make install
```

The kernel modules will be placed in "/lib/modules/<KERNEL VERSION>/extra"



and the firmware files will be placed in the appropriate hotplug firmware directory, usually `/lib/firmware`. In addition, USB maps and scripts will be placed in `/etc/hotplug/usb` to enable `fxload` to initialize the EZ-USB control chip when the device is connected.

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

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

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

The wide variety of PAL TV systems used in Europe requires that additional information about the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

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

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

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

The other parameter that can be specified is the audio subchannel format. There are several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the `"force_mpx_mode"` parameter must be specified to the `wis-sony-tuner` module.

TV band	Audio subcarrier	force_mpx_mode
-----	-----	-----
PAL B/G	Mono (default)	1
PAL B/G	A2	2
PAL B/G	NICAM	3
PAL I	Mono (default)	4

PAL I	NICAM	5
PAL D/K	Mono (default)	6
PAL D/K	A2 (1)	7
PAL D/K	A2 (2)	8
PAL D/K	A2 (3)	9
PAL D/K	NICAM	10
SECAM L	Mono (default)	11
SECAM L	NICAM	12

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

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

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

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

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

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

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

#### 4. TESTING THE DRIVER

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

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

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

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

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

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

## 5. USING THE DRIVER

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

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

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

```
GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS
```

These `ioctl`s are used to negotiate general compression parameters.

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

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

Fields in struct `go7007_comp_params`:

<code>__u32</code> <code>gop_size</code>	The maximum number of frames in each Group Of Pictures; i.e. the maximum number of frames minus one between each key frame.
<code>__u32</code> <code>max_b_frames</code>	The maximum number of sequential bidirectionally-predicted frames. (B-frames are not yet supported.)
<code>enum go7007_aspect_ratio</code> <code>aspect_ratio</code>	The aspect ratio to be encoded in the meta-data of the compressed format.
	Choices are: <code>GO7007_ASPECT_RATIO_1_1</code> <code>GO7007_ASPECT_RATIO_4_3_NTSC</code> <code>GO7007_ASPECT_RATIO_4_3_PAL</code> <code>GO7007_ASPECT_RATIO_16_9_NTSC</code> <code>GO7007_ASPECT_RATIO_16_9_PAL</code>
<code>__u32</code> <code>flags</code>	Bit-wise OR of control flags (below)

Flags in struct `go7007_comp_params`:

<code>GO7007_COMP_CLOSED_GOP</code>	Only produce self-contained GOPs, used to produce streams appropriate for random seeking.
<code>GO7007_COMP_OMIT_SEQ_HEADER</code>	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
-----
```

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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```
=====
linux-firmware-20220610: LICENCE.ueagle-atm4-firmware
=====
```

This license applies to eagle4 firmware & DSPcode  
namely, the files eagleIV.fw DSP4p.bin\*

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```
=====
linux-firmware-20220610: LICENCE.via_vt6656
=====
```

The following license applies to the binary-only VT6656 firmware as contained in the file "vntwusb.fw"

```
=====
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```
=====
linux-firmware-20220610: LICENCE.wl1251
=====
```

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```
=====
linux-firmware-20220610: LICENCE.xc4000
=====
```

The following XC4000 firmware file "dvb-fe-xc4000-1.4.1.fw" was created based on version 1.4 of "xc4000\_firmwares.h".

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.

The code was released by Xceive under the following license:

```
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```

```
=====
linux-firmware-20220610: LICENCE.xc5000
=====
```

The following XC5000 firmware file "dvb-fe-xc5000-1.6.114.fw" was created based on "xc5000\_firmwares\_32000Khz.h".

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

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```

```
=====
linux-firmware-20220610: LICENCE.xc5000c
=====
```

The following XC500C firmware file "dvh-fe-xc5000C-4.1.30.7.fw" was created based on "Xc5200\_firmwares\_32000Khz.h".

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

The code was released by Cresta Technology under the following license:

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```

```
=====
linux-firmware-20220610: WHENCE
=====
```

```
*****
* WHENCE *
*****
```

This file attempts to document the origin and licensing information, if known, for each piece of firmware distributed for use with the Linux kernel.

-----  
Driver: BCM-0bb4-0306 Cypress Bluetooth firmware for HTC Vive

File: brcm/BCM-0bb4-0306.hcd

Link: brcm/BCM-0a5c-6410.hcd -> BCM-0bb4-0306.hcd

Licence: Redistributable. See LICENCE.cypress for details.

-----  
Driver: ambassador -- Madge Ambassador (Collage PCI 155 Server) ATM NIC.

File: atmsar11.fw

Licence: Allegedly GPLv2+, but no source visible. Marked:

Madge Ambassador ATM Adapter microcode.

Copyright (C) 1995-1999 Madge Networks Ltd.

This microcode data is placed under the terms of the GNU General Public License. The GPL is contained in /usr/doc/copyright/GPL on a Debian system and in the file COPYING in the Linux kernel source.

We would prefer you not to distribute modified versions without consultation and not to ask for assembly/other microcode source.

-----  
Driver: snd-korg1212 -- Korg 1212 IO audio device

File: korg/k1212.dsp

Licence: Unknown

Found in alsa-firmware package in hex form; no licensing information.

-----  
Driver: snd-maestro3 -- ESS Allegro Maestro3 audio device

File: ess/maestro3\_assp\_kernel.fw

File: ess/maestro3\_assp\_minisrc.fw

Licence: Unknown

Found in alsa-firmware package in hex form with a comment claiming to be GPLv2+, but without source -- and with another comment saying "ESS drops binary dsp code images on our heads, but we don't get to see specs on the dsp."

-----  
Driver: snd-ymfpci -- Yamaha YMF724/740/744/754 audio devices

File: yamaha/ds1\_ctrl.fw  
File: yamaha/ds1\_dsp.fw  
File: yamaha/ds1e\_ctrl.fw

Licence: Unknown

Found alsa-firmware package in hex form, with the following comment:  
Copyright (c) 1997-1999 Yamaha Corporation. All Rights Reserved.

-----  
Driver: advansys - AdvanSys SCSI

File: advansys/mcode.bin  
File: advansys/3550.bin  
File: advansys/38C0800.bin  
File: advansys/38C1600.bin

Licence: BSD, no source available.

Found in hex form in kernel source.

-----  
Driver: qlal280 - Qlogic QLA 1240/1x80/1x160 SCSI support

File: qlogic/1040.bin  
File: qlogic/1280.bin  
File: qlogic/12160.bin

Licence: Redistributable. See LICENCE.qlal280 for details

-----  
Driver: smctr -- SMC ISA/MCA Token Ring adapter

File: tr\_smctr.bin  
Version: 6.3C1  
Info: MCT.BIN v6.3C1 03/01/95

Original licence info:

\* This firmware is licensed to you strictly for use in conjunction  
\* with the use of SMC TokenRing adapters. There is no warranty  
\* expressed or implied about its fitness for any purpose.

-----  
Driver: kaweth -- USB KLSI KL5USB101-based Ethernet device

File: kaweth/new\_code.bin  
File: kaweth/new\_code\_fix.bin  
File: kaweth/trigger\_code.bin  
File: kaweth/trigger\_code\_fix.bin

Licence: Redistributable. See LICENCE.kaweth for details

Found in hex form in the kernel source.

-----  
Driver: dvb-ttusb-budget -- Technotrend/Hauppauge Nova-USB devices

File: ttusb-budget/dspbootcode.bin

Licence: Unknown

Found in hex form in the kernel source.

-----  
Driver: keyspan -- USB Keyspan USA-xxx serial device

File: keyspan/mpr.fw  
File: keyspan/usa18x.fw  
File: keyspan/usa19.fw  
File: keyspan/usa19qi.fw  
File: keyspan/usa19qw.fw  
File: keyspan/usa19w.fw  
File: keyspan/usa28.fw  
File: keyspan/usa28xa.fw  
File: keyspan/usa28xb.fw  
File: keyspan/usa28x.fw  
File: keyspan/usa49w.fw  
File: keyspan/usa49wlc.fw

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information:

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-----  
Driver: keyspan\_pda -- USB Keyspan PDA single-port serial device

File: keyspan\_pda/keyspan\_pda.fw  
Source: keyspan\_pda/keyspan\_pda.S

File: keyspan\_pda/xircom\_pgs.fw  
Source: keyspan\_pda/xircom\_pgs.S

Source: keyspan\_pda/Makefile

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

Compiled from original 8051 source into Intel HEX, used in our binary ihex form.

-----  
Driver: emi26 -- EMI 2|6 USB Audio interface

File: emi26/bitstream.fw  
Version: 1.1.1.131  
Info: DATE=2001dec06

File: emi26/firmware.fw  
Version: 1.0.2.916  
Info: DATE=12.02.2002

File: emi26/loader.fw

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information:

```
/*
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 *
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 * This firmware may not be modified and may only be used with the
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 * any driver which includes this firmware, in whole or in part,
 * requires the inclusion of this statement.
 */
```

-----

Driver: emi62 -- EMI 6|2m USB Audio interface

File: emi62/bitstream.fw  
Version: 1.0.0.191  
Info: DATE= 2002oct28

File: emi62/loader.fw  
Version: 1.0.2.002  
Info: DATE=10.01.2002

File: emi62/midi.fw  
Version: 1.04.062  
Info: DATE=16.10.2002

File: emi62/spdif.fw  
Version: 1.04.062  
Info: DATE=16.10.2002

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information: None

-----

Driver: ti\_usb\_3410\_5052 -- USB TI 3410/5052 serial device

File: ti\_3410.fw  
Info: firmware 9/10/04 FW3410\_Special\_StartWdogOnStartPort

File: ti\_5052.fw  
Info: firmware 9/18/04

Licence: Allegedly GPLv2+, but no source visible. Marked:  
Copyright (C) 2004 Texas Instruments

Found in hex form in kernel source.

-----  
Driver: ti\_usb\_3410\_5052 -- Multi-Tech USB cell modems

File: mts\_cdma.fw  
File: mts\_gsm.fw  
File: mts\_edge.fw

Licence: "all firmware components are redistributable in binary form"  
per support@multitech.com  
Copyright (C) 2005 Multi-Tech Systems, Inc.

Found in hex form in ftp://ftp.multitech.com/wireless/wireless\_linux.zip

-----  
Driver: ti\_usb\_3410\_5052 -- Multi-Tech USB fax modems

File: mts\_mt9234mu.fw  
File: mts\_mt9234zba.fw

Licence: Unknown

-----  
Driver: whiteheat -- USB ConnectTech WhiteHEAT serial device

File: whiteheat.fw  
Version: 4.06

File: whiteheat\_loader.fw

Licence: Allegedly GPLv2, but no source visible. Marked:  
Copyright (C) 2000-2002 ConnectTech Inc

Debug loader claims the following behaviour:

- Port 1 LED flashes when the vend\_ax program is running
- Port 2 LED flashes when any SETUP command arrives
- Port 3 LED flashes when any valid VENDOR request occurs
- Port 4 LED flashes when the EXTERNAL RAM DOWNLOAD request occurs

Converted from Intel HEX files, used in our binary representation of ihex.

-----  
Driver: ip2 -- Computone IntelliPort Plus serial device

File: intelliport2.bin

Licence: Unknown

Found in hex form in kernel source.

-----  
Driver: cpia2 -- cameras based on Vision's CPiA2

File: cpia2/stv0672\_vp4.bin

Licence: Allegedly GPLv2+, but no source visible. Marked:

Copyright (C) 2001 STMicroelectronics, Inc.

Contact: steve.miller@st.com

Description: This file contains patch data for the CPiA2 (stv0672) VP4.

Found in hex form in kernel source.

-----  
Driver: dabusb -- Digital Audio Broadcasting (DAB) Receiver for USB and Linux

File: dabusb/firmware.fw

File: dabusb/bitstream.bin

Licence: Distributable

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\*

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-----  
Driver: vicam -- USB 3com HomeConnect (aka vicam)

File: vicam/firmware.fw

Licence: Unknown

Found in hex form in kernel source.



-----  
Driver: io\_edgeport - USB Inside Out Edgeport Serial Driver

File: edgeport/boot.fw  
File: edgeport/boot2.fw  
File: edgeport/down.fw  
File: edgeport/down2.fw

Licence: Allegedly GPLv2+, but no source visible. Marked:  
//\*\*\*\*\*  
/\* Edgeport/4 Binary Image  
/\* Generated by HEX2C v1.06  
/\* Copyright (C) 1998 Inside Out Networks, All rights reserved.  
//\*\*\*\*\*

Found in hex form in kernel source.  
-----

Driver: io\_ti - USB Inside Out Edgeport Serial Driver  
(TI Devices)

File: edgeport/down3.bin

Licence:  
//\*\*\*\*\*  
/\* Edgeport Binary Image (for TI based products)  
/\* Generated by TIBin2C v2.00 (watchport)  
/\* Copyright (C) 2001 Inside Out Networks, All rights reserved.  
//\*\*\*\*\*

Found in hex form in kernel source.  
-----

Driver: dsp56k - Atari DSP56k support

File: dsp56k/bootstrap.bin  
Source: dsp56k/bootstrap.asm  
Source: dsp56k/Makefile  
Source: dsp56k/concat-bootstrap.pl

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

DSP56001 assembler, buildable with a56 from  
<http://www.zdomain.com/a56.html>  
-----

Driver: snd-sb16-csp - Sound Blaster 16/AWE CSP support

File: sb16/mulaw\_main.csp  
File: sb16/alaw\_main.csp  
File: sb16/ima\_adpcm\_init.csp  
File: sb16/ima\_adpcm\_playback.csp  
File: sb16/ima\_adpcm\_capture.csp

Licence: Allegedly GPLv2+, but no source visible. Marked:

```
/*  
 * Copyright (c) 1994 Creative Technology Ltd.  
 * Microcode files for SB16 Advanced Signal Processor  
 */
```

Found in hex form in kernel source.

-----  
Driver: qla2xxx - QLogic QLA2XXX Fibre Channel

File: ql2100\_fw.bin  
Version: 1.19.38 TP  
File: ql2200\_fw.bin  
Version: 2.02.08 TP  
File: ql2300\_fw.bin  
Version: 3.03.28 IPX  
File: ql2322\_fw.bin  
Version: 3.03.28 IPX  
File: ql2400\_fw.bin  
Version: 8.07.00 MID  
File: ql2500\_fw.bin  
Version: 8.07.00 MIDQ

Licence: Redistributable. See LICENCE.qla2xxx for details

Available from <http://ldriver.qlogic.com/firmware/>

-----  
Driver: orinoco - Agere/Prism/Symbol Orinoco support

File: agere\_sta\_fw.bin  
Version: 9.48 Hermes I  
File: agere\_ap\_fw.bin  
Version: 9.48 Hermes I

Licence: Redistributable. See LICENCE.agere for details

Driver: ar9170 - Atheros 802.11n "otus" USB

File: ar9170-1.fw

File: ar9170-2.fw

Licence: Redistributable. See LICENCE.atheros\_firmware for details

---

Driver: ath9k\_htc - Atheros HTC devices (USB)

File: ar9271.fw

File: ar7010.fw

File: ar7010\_1\_1.fw

File: htc\_9271.fw

Version: 1.3.1

File: htc\_7010.fw

Version: 1.3.1

Licence: Redistributable. See LICENCE.atheros\_firmware for details

File: ath9k\_htc/htc\_7010-1.4.0.fw

Version: 1.4.0

File: ath9k\_htc/htc\_9271-1.4.0.fw

Version: 1.4.0

Licence: Free software. See LICENCE.open-ath9k-htc-firmware for details

---

Driver: cassini - Sun Cassini

File: sun/cassini.bin

Licence: Unknown

Found in hex form in kernel source.

---

Driver: slicoss - Alacritech IS-NIC products

File: slicoss/gbdownload.sys

File: slicoss/gbrcvuocode.sys

File: slicoss/oasisdbgdownload.sys

File: slicoss/oasisdownload.sys

File: slicoss/oasisrcvuocode.sys

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-----  
Driver: sxg - Alacritech IS-NIC products

File: sxg/saharadownloadB.sys

File: sxg/saharadbdownloadB.sys

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-----  
Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/t3b\_psram-1.1.0.bin

File: cxgb3/t3c\_psram-1.1.0.bin

File: cxgb3/t3fw-7.0.0.bin

File: cxgb3/t3fw-7.1.0.bin

File: cxgb3/t3fw-7.4.0.bin

File: cxgb3/t3fw-7.10.0.bin

File: cxgb3/t3fw-7.12.0.bin

Licence: GPLv2 or OpenIB.org BSD license, no source visible

-----  
Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/ael2005\_opt\_edc.bin

File: cxgb3/ael2005\_twx\_edc.bin

File: cxgb3/ael2020\_twx\_edc.bin

Licence:

```
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```

Found in hex form in kernel source.

-----  
Driver: cxgb4 - Chelsio Terminator 4/5/6 1/10/25/40/100G Ethernet adapter

File: cxgb4/t4fw-1.14.4.0.bin

File: cxgb4/t4fw-1.15.37.0.bin

File: cxgb4/t4fw-1.26.6.0.bin

Link: cxgb4/t4fw.bin -> t4fw-1.26.6.0.bin

File: cxgb4/t5fw-1.14.4.0.bin

File: cxgb4/t5fw-1.15.37.0.bin

File: cxgb4/t5fw-1.26.6.0.bin

Link: cxgb4/t5fw.bin -> t5fw-1.26.6.0.bin

File: cxgb4/t6fw-1.26.6.0.bin

Link: cxgb4/t6fw.bin -> t6fw-1.26.6.0.bin

File: cxgb4/aq1202\_fw.cld

File: cxgb4/bcm8483.bin

File: cxgb4/configs/t4-config-default.txt

File: cxgb4/configs/t5-config-default.txt

File: cxgb4/configs/t6-config-default.txt

File: cxgb4/configs/t5-config-hashfilter.txt

File: cxgb4/configs/t6-config-hashfilter.txt

Link: cxgb4/t4-config.txt -> configs/t4-config-default.txt

Link: cxgb4/t5-config.txt -> configs/t5-config-default.txt

Link: cxgb4/t6-config.txt -> configs/t6-config-default.txt

Licence: Redistributable. See LICENCE.chelsio\_firmware for details

Driver: e100 -- Intel PRO/100 Ethernet NIC

File: e100/d101m\_ucose.bin

File: e100/d101s\_ucose.bin

File: e100/d102e\_ucose.bin

Licence: Redistributable. See LICENCE.e100 for details

-----

Driver: acenic -- Alteon AceNIC Gigabit Ethernet card

File: acenic/tg1.bin

File: acenic/tg2.bin

Licence: Unknown

Found in hex form in kernel source, but source allegedly available at  
<http://alteon.shareable.org/>

-----

Driver: tg3 -- Broadcom Tigon3 based gigabit Ethernet cards

File: tigon/tg3.bin

File: tigon/tg3\_tso.bin

File: tigon/tg3\_tso5.bin

File: tigon/tg357766.bin

Licence:

\* Firmware is:

\* Derived from proprietary unpublished source code,

\* Copyright (C) 2000-2013 Broadcom Corporation.

\*

\* Permission is hereby granted for the distribution of this firmware

\* data in hexadecimal or equivalent format, provided this copyright

\* notice is accompanying it.

Found in hex form in kernel source.

-----

Driver: starfire - Adaptec Starfire/DuraLAN support

File: adaptec/starfire\_rx.bin

File: adaptec/starfire\_tx.bin

Licence: Allegedly GPLv2, but no source visible.

Found in hex form in kernel source, with the following notice:

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-----  
Driver: i2400m-usb - Intel 2400 Wireless WiMAX Connection over USB

File: i2400m-fw-usb-1.4.sbcf  
File: i2400m-fw-usb-1.5.sbcf  
File: i6050-fw-usb-1.5.sbcf

Licence: Redistributable. See LICENCE.i2400m for details

Also available from <http://linuxwimax.org/Download>

-----  
Driver: libertas - Marvell Libertas fullmac-type 802.11b/g cards

File: libertas/cf8381.bin  
File: libertas/cf8381\_helper.bin  
File: libertas/cf8385.bin  
File: libertas/cf8385\_helper.bin  
File: libertas/gspi8682.bin  
File: libertas/gspi8682\_helper.bin  
File: libertas/gspi8686\_v9.bin  
File: libertas/gspi8686\_v9\_helper.bin  
File: libertas/gspi8688.bin  
File: libertas/gspi8688\_helper.bin  
File: libertas/sd8385.bin  
File: libertas/sd8385\_helper.bin  
File: libertas/sd8682.bin  
File: libertas/sd8682\_helper.bin  
File: libertas/sd8686\_v8.bin  
File: libertas/sd8686\_v8\_helper.bin  
File: libertas/sd8686\_v9.bin  
File: libertas/sd8686\_v9\_helper.bin  
File: libertas/usb8388\_v5.bin  
File: libertas/usb8388\_v9.bin  
File: libertas/usb8682.bin  
File: mrvl/sd8688.bin  
Link: libertas/sd8688.bin -> ../mrvl/sd8688.bin  
File: mrvl/sd8688\_helper.bin  
Link: libertas/sd8688\_helper.bin -> ../mrvl/sd8688\_helper.bin

Licence: Redistributable. See LICENCE.Marvell for details. Extracted from Linux driver tarballs downloaded from Marvell's "Extranet" with permission.

-----  
Driver: libertas - Marvell Libertas 802.11b/g cards, OLPC firmware

File: libertas/lbtf\_sdio.bin  
Version: 9.0.7.p4

File: lbtf\_usb.bin  
Version: 5.132.3.p1

File: libertas/usb8388\_olpc.bin  
Version: 5.110.22.p23

Licence: Redistributable. See LICENCE.OLPC for details.

Available from <http://dev.laptop.org/pub/firmware/libertas/>

-----  
Driver: mwl8k - Marvell Libertas softmac-type 802.11b/g/n cards

File: mwl8k/fmimage\_8687.fw  
File: mwl8k/helper\_8687.fw  
File: mwl8k/fmimage\_8366.fw  
File: mwl8k/fmimage\_8366\_ap-1.fw  
File: mwl8k/fmimage\_8366\_ap-2.fw  
File: mwl8k/fmimage\_8366\_ap-3.fw  
Version: 5.2.8.16  
File: mwl8k/helper\_8366.fw

File: mwl8k/fmimage\_8764\_ap-1.fw  
Version: 7.4.0.9

Licence: Redistributable. See LICENCE.Marvell for details. 8687 images downloaded from Marvell's "Extranet" with permission. 8366 images contributed directly by Marvell.

-----  
Driver: mwifiex - Marvell Wi-Fi fullmac-type 802.11n/ac cards

File: mrvl/sd8787\_uapsta.bin  
Version: W14.68.35.p66

File: mrvl/usb8766\_uapsta.bin  
Version: 14.68.22.p16



File: mrvl/sd8797\_uapsta.bin

Version: W14.68.29.p59

File: mrvl/usb8797\_uapsta.bin

Version: W14.68.29.p60

File: mrvl/sd8897\_uapsta.bin

Version: W15.68.19.17

File: mrvl/usb8897\_uapsta.bin

Version: 15.68.4.p103

File: mrvl/pcie8897\_uapsta.bin

Version: W15.68.19.p21

File: mrvl/sd8887\_uapsta.bin

Version: W15.68.7.p189

File: mrvl/sd8801\_uapsta.bin

Version: W14.68.36.p204

File: mrvl/usb8801\_uapsta.bin

Version: W14.68.36.p138

File: mrvl/pcieuart8997\_combo\_v4.bin

Version: W16.68.1.p179

File: mrvl/pcieusb8997\_combo\_v4.bin

Version: W16.68.1.p195

File: mrvl/pcie8997\_wlan\_v4.bin

Version: W16.68.1.p195

File: mrvl/usbusb8997\_combo\_v4.bin

Version: W16.68.1.p183

File: mrvl/sdsd8997\_combo\_v4.bin

Version: W16.68.1.p179

File: mrvl/sdsd8977\_combo\_v2.bin

Version: W16.68.1.p195

Licence: Redistributable. See LICENCE.NXP for details.

Originates from <https://github.com/NXP/mwifiex-firmware.git>

-----  
Driver: iwlwifi - Intel Wireless Wifi

File: iwlwifi-3945-2.ucode

Version: 15.32.2.9

File: iwlwifi-4965-2.ucode

Version: 228.61.2.24

File: iwlwifi-5000-1.ucode

Version: 5.4.A.11 (aka 5.4.1.16)

File: iwlwifi-5000-2.ucode

Version: 8.24.2.12

File: iwlwifi-5000-5.ucode

Version: 8.83.5.1

File: iwlwifi-5150-2.ucode

Version: 8.24.2.2

File: iwlwifi-1000-3.ucode

Version: 128.50.3.1

File: iwlwifi-1000-5.ucode

Version: 39.31.5.1

File: iwlwifi-6000-4.ucode

Version: 9.221.4.1

File: iwlwifi-6050-4.ucode

Version: 9.201.4.1

File: iwlwifi-6050-5.ucode

Version: 41.28.5.1

File: iwlwifi-6000g2a-5.ucode

Version: 17.168.5.3

File: iwlwifi-6000g2a-6.ucode

Version: 18.168.6.1

File: iwlwifi-6000g2b-5.ucode

Version: 17.168.5.1

File: iwlwifi-6000g2b-6.ucode

Version: 18.168.6.1

File: iwlwifi-135-6.ucode

Version: 18.168.6.1

File: iwlwifi-100-5.ucode

Version: 39.31.5.1

File: iwlwifi-105-6.ucode  
Version: 18.168.6.1

File: iwlwifi-2030-6.ucode  
Version: 18.168.6.1

File: iwlwifi-2000-6.ucode  
Version: 18.168.6.1

File: iwlwifi-7260-17.ucode  
Version: 17.bfb58538.0

File: iwlwifi-3160-17.ucode  
Version: 17.bfb58538.0

File: iwlwifi-7265-17.ucode  
Version: 17.bfb58538.0

File: iwlwifi-7265D-22.ucode  
Version: 22.391740.0

File: iwlwifi-7265D-27.ucode  
Version: 27.541033.0

File: iwlwifi-7265D-29.ucode  
Version: 29.f2390aa8.0

File: iwlwifi-3168-22.ucode  
Version: 22.391740.0

File: iwlwifi-3168-27.ucode  
Version: 27.541033.0

File: iwlwifi-3168-29.ucode  
Version: 29.0bd893f3.0

File: iwlwifi-8000C-22.ucode  
Version: 22.391740.0

File: iwlwifi-8000C-27.ucode  
Version: 27.541033.0

File: iwlwifi-8000C-31.ucode  
Version: 31.560484.0

File: iwlwifi-8000C-34.ucode  
Version: 34.610288.0

File: iwlwifi-8000C-36.ucode  
Version: 36.ca7b901d.0

File: iwlwifi-8265-22.ucode  
Version: 22.391740.0

File: iwlwifi-8265-27.ucode  
Version: 27.541033.0

File: iwlwifi-8265-31.ucode  
Version: 31.560484.0

File: iwlwifi-8265-34.ucode  
Version: 34.610288.0

File: iwlwifi-8265-36.ucode  
Version: 36.ca7b901d.0

File: iwlwifi-9000-pu-b0-jf-b0-33.ucode  
Version: 33.610294.0

File: iwlwifi-9000-pu-b0-jf-b0-34.ucode  
Version: 34.ba501b11.0

File: iwlwifi-9000-pu-b0-jf-b0-38.ucode  
Version: 38.755cfdd8.0

File: iwlwifi-9000-pu-b0-jf-b0-41.ucode  
Version: 41.fc1a7aea.0

File: iwlwifi-9000-pu-b0-jf-b0-43.ucode  
Version: 43.95eb4e97.0

File: iwlwifi-9000-pu-b0-jf-b0-46.ucode  
Version: 46.9d0122c0.0

File: iwlwifi-9260-th-b0-jf-b0-33.ucode  
Version: 33.610294.0

File: iwlwifi-9260-th-b0-jf-b0-34.ucode  
Version: 34.ba501b11.0

File: iwlwifi-9260-th-b0-jf-b0-38.ucode  
Version: 38.755cfdd8.0

File: iwlwifi-9260-th-b0-jf-b0-41.ucode  
Version: 41.fc1a7aea.0

File: iwlwifi-9260-th-b0-jf-b0-43.ucode  
Version: 43.95eb4e97.0

File: iwlwifi-9260-th-b0-jf-b0-46.ucode

Version: 46.9d0122c0.0

File: iwlwifi-cc-a0-46.ucode

Version: 46.3cfab8da.0

File: iwlwifi-cc-a0-48.ucode

Version: 48.4fa0041f.0

File: iwlwifi-Qu-b0-hr-b0-48.ucode

Version: 48.4fa0041f.0

File: iwlwifi-Qu-b0-jf-b0-48.ucode

Version: 48.4fa0041f.0

File: iwlwifi-Qu-c0-hr-b0-48.ucode

Version: 48.4fa0041f.0

File: iwlwifi-Qu-c0-jf-b0-48.ucode

Version: 48.4fa0041f.0

File: iwlwifi-QuZ-a0-hr-b0-48.ucode

Version: 48.4fa0041f.0

File: iwlwifi-QuZ-a0-jf-b0-48.ucode

Version: 48.4fa0041f.0

File: iwlwifi-cc-a0-50.ucode

Version: 50.3e391d3e.0

File: iwlwifi-Qu-b0-hr-b0-50.ucode

Version: 50.3e391d3e.0

File: iwlwifi-Qu-b0-jf-b0-50.ucode

Version: 50.3e391d3e.0

File: iwlwifi-Qu-c0-hr-b0-50.ucode

Version: 50.3e391d3e.0

File: iwlwifi-Qu-c0-jf-b0-50.ucode

Version: 50.3e391d3e.0

File: iwlwifi-QuZ-a0-hr-b0-50.ucode

Version: 50.3e391d3e.0

File: iwlwifi-QuZ-a0-jf-b0-50.ucode

Version: 50.3e391d3e.0

File: iwlwifi-cc-a0-53.ucode

Version: 53.c31ac674.0

File: iwlwifi-Qu-b0-hr-b0-53.ucode  
Version: 53.c31ac674.0

File: iwlwifi-Qu-b0-jf-b0-53.ucode  
Version: 53.c31ac674.0

File: iwlwifi-Qu-c0-hr-b0-53.ucode  
Version: 53.c31ac674.0

File: iwlwifi-Qu-c0-jf-b0-53.ucode  
Version: 53.c31ac674.0

File: iwlwifi-QuZ-a0-hr-b0-53.ucode  
Version: 53.c31ac674.0

File: iwlwifi-QuZ-a0-jf-b0-53.ucode  
Version: 53.c31ac674.0

File: iwlwifi-cc-a0-55.ucode  
Version: 55.d9698065.0

File: iwlwifi-Qu-b0-hr-b0-55.ucode  
Version: 55.d9698065.0

File: iwlwifi-Qu-b0-jf-b0-55.ucode  
Version: 55.d9698065.0

File: iwlwifi-Qu-c0-hr-b0-55.ucode  
Version: 55.d9698065.0

File: iwlwifi-Qu-c0-jf-b0-55.ucode  
Version: 55.d9698065.0

File: iwlwifi-QuZ-a0-hr-b0-55.ucode  
Version: 55.d9698065.0

File: iwlwifi-QuZ-a0-jf-b0-55.ucode  
Version: 55.d9698065.0

File: iwlwifi-cc-a0-59.ucode  
Version: 59.601f3a66.0

File: iwlwifi-Qu-b0-hr-b0-59.ucode  
Version: 59.601f3a66.0

File: iwlwifi-Qu-b0-jf-b0-59.ucode  
Version: 59.601f3a66.0

File: iwlwifi-Qu-c0-hr-b0-59.ucose  
Version: 59.601f3a66.0

File: iwlwifi-Qu-c0-jf-b0-59.ucose  
Version: 59.601f3a66.0

File: iwlwifi-QuZ-a0-hr-b0-59.ucose  
Version: 59.601f3a66.0

File: iwlwifi-QuZ-a0-jf-b0-59.ucose  
Version: 59.601f3a66.0

File: iwlwifi-so-a0-gf-a0-64.ucose  
Version: 64.97bbe0a.0

File: iwlwifi-so-a0-gf-a0-67.ucose  
Version: 67.8f59b80b.0

File: iwlwifi-so-a0-gf4-a0-67.ucose  
Version: 67.8f59b80b.0

File: iwlwifi-so-a0-gf-a0.pnvm

File: iwlwifi-so-a0-gf4-a0.pnvm

File: iwlwifi-so-a0-hr-b0-64.ucose  
Version: 64.97bbe0a.0

File: iwlwifi-so-a0-jf-b0-64.ucose  
Version: 64.97bbe0a.0

File: iwlwifi-ty-a0-gf-a0-59.ucose  
Version: 59.601f3a66.0

File: iwlwifi-cc-a0-62.ucose  
Version: 62.49eeb572.0

File: iwlwifi-Qu-b0-hr-b0-62.ucose  
Version: 62.49eeb572.0

File: iwlwifi-Qu-b0-jf-b0-62.ucose  
Version: 62.49eeb572.0

File: iwlwifi-Qu-c0-hr-b0-62.ucose  
Version: 62.49eeb572.0

File: iwlwifi-Qu-c0-jf-b0-62.ucose  
Version: 62.49eeb572.0

File: iwlwifi-QuZ-a0-hr-b0-62.ucose

Version: 62.49eeb572.0

File: iwlwifi-QuZ-a0-jf-b0-62.ucode  
Version: 62.49eeb572.0

File: iwlwifi-ty-a0-gf-a0-62.ucode  
Version: 62.49eeb572.0

File: iwlwifi-cc-a0-63.ucode  
Version: 63.c04f3485.0

File: iwlwifi-cc-a0-67.ucode  
Version: 67.8f59b80b.0

File: iwlwifi-Qu-b0-hr-b0-63.ucode  
Version: 63.c04f3485.0

File: iwlwifi-Qu-b0-jf-b0-63.ucode  
Version: 63.c04f3485.0

File: iwlwifi-Qu-c0-hr-b0-63.ucode  
Version: 63.c04f3485.0

File: iwlwifi-Qu-c0-jf-b0-63.ucode  
Version: 63.c04f3485.0

File: iwlwifi-QuZ-a0-hr-b0-63.ucode  
Version: 63.c04f3485.0

File: iwlwifi-QuZ-a0-hr-b0-67.ucode  
Version: 67.8f59b80b.0

File: iwlwifi-QuZ-a0-jf-b0-63.ucode  
Version: 63.c04f3485.0

File: iwlwifi-ty-a0-gf-a0-63.ucode  
Version: 63.c04f3485.0

File: iwlwifi-cc-a0-66.ucode  
Version: 66.f1c864e0.0

File: iwlwifi-Qu-b0-hr-b0-66.ucode  
Version: 66.f1c864e0.0

File: iwlwifi-Qu-b0-jf-b0-66.ucode  
Version: 66.f1c864e0.0

File: iwlwifi-Qu-c0-hr-b0-66.ucode  
Version: 66.f1c864e0.0



File: iwlwifi-Qu-c0-jf-b0-66.ucose  
Version: 66.f1c864e0.0

File: iwlwifi-QuZ-a0-hr-b0-66.ucose  
Version: 66.f1c864e0.0

File: iwlwifi-QuZ-a0-jf-b0-66.ucose  
Version: 66.f1c864e0.0

File: iwlwifi-ty-a0-gf-a0-66.ucose  
Version: 66.f1c864e0.0

File: iwlwifi-ty-a0-gf-a0-67.ucose  
Version: 67.8f59b80b.0

File: iwlwifi-cc-a0-68.ucose  
Version: 68.01d30b0c.0

File: iwlwifi-Qu-b0-hr-b0-68.ucose  
Version: 68.01d30b0c.0

File: iwlwifi-Qu-b0-jf-b0-68.ucose  
Version: 68.01d30b0c.0

File: iwlwifi-Qu-c0-hr-b0-68.ucose  
Version: 68.01d30b0c.0

File: iwlwifi-Qu-c0-jf-b0-68.ucose  
Version: 68.01d30b0c.0

File: iwlwifi-QuZ-a0-hr-b0-68.ucose  
Version: 68.01d30b0c.0

File: iwlwifi-QuZ-a0-jf-b0-68.ucose  
Version: 68.01d30b0c.0

File: iwlwifi-ty-a0-gf-a0-68.ucose  
Version: 68.01d30b0c.0

File: iwlwifi-so-a0-gf4-a0-68.ucose  
Version: 68.01d30b0c.0

File: iwlwifi-so-a0-gf-a0-68.ucose  
Version: 68.01d30b0c.0

File: iwlwifi-so-a0-hr-b0-68.ucose  
Version: 68.01d30b0c.0

File: iwlwifi-so-a0-jf-b0-68.ucose  
Version: 68.01d30b0c.0

File: iwlwifi-cc-a0-71.ucode  
Version: 71.058653f6.0

File: iwlwifi-Qu-b0-hr-b0-71.ucode  
Version: 71.058653f6.0

File: iwlwifi-Qu-b0-jf-b0-71.ucode  
Version: 71.058653f6.0

File: iwlwifi-Qu-c0-hr-b0-71.ucode  
Version: 71.058653f6.0

File: iwlwifi-Qu-c0-jf-b0-71.ucode  
Version: 71.058653f6.0

File: iwlwifi-QuZ-a0-hr-b0-71.ucode  
Version: 71.058653f6.0

File: iwlwifi-QuZ-a0-jf-b0-71.ucode  
Version: 71.058653f6.0

File: iwlwifi-ty-a0-gf-a0-71.ucode  
Version: 71.058653f6.0

File: iwlwifi-so-a0-gf4-a0-71.ucode  
Version: 71.058653f6.0

File: iwlwifi-so-a0-gf-a0-71.ucode  
Version: 71.058653f6.0

File: iwlwifi-so-a0-hr-b0-71.ucode  
Version: 71.058653f6.0

File: iwlwifi-so-a0-jf-b0-71.ucode  
Version: 71.058653f6.0

File: iwlwifi-cc-a0-73.ucode  
Version: 73.35c0a2c6.0

File: iwlwifi-Qu-b0-hr-b0-73.ucode  
Version: 73.35c0a2c6.0

File: iwlwifi-Qu-b0-jf-b0-73.ucode  
Version: 73.35c0a2c6.0

File: iwlwifi-Qu-c0-hr-b0-73.ucode  
Version: 73.35c0a2c6.0

File: iwlwifi-Qu-c0-jf-b0-73.ucode

Version: 73.35c0a2c6.0

File: iwlwifi-QuZ-a0-hr-b0-73.ucode  
Version: 73.35c0a2c6.0

File: iwlwifi-QuZ-a0-jf-b0-73.ucode  
Version: 73.35c0a2c6.0

File: iwlwifi-ty-a0-gf-a0-73.ucode  
Version: 73.35c0a2c6.0

File: iwlwifi-so-a0-gf4-a0-73.ucode  
Version: 73.35c0a2c6.0

File: iwlwifi-so-a0-gf-a0-73.ucode  
Version: 73.35c0a2c6.0

File: iwlwifi-so-a0-hr-b0-73.ucode  
Version: 73.35c0a2c6.0

File: iwlwifi-so-a0-jf-b0-73.ucode  
Version: 73.35c0a2c6.0

File: iwlwifi-so-a0-gf-a0.pnvm

File: iwlwifi-so-a0-gf4-a0.pnvm

File: iwlwifi-ty-a0-gf-a0.pnvm

Licence: Redistributable. See LICENCE.iwlwifi\_firmware for details

Also available from <http://wireless.kernel.org/en/users/Drivers/iwlwifi#Firmware>

-----  
Driver: ipu3-imgu - Intel IPU3 (3rd Gen Image Processing Unit) driver

File: intel/irci\_irci\_ecr-master\_20161208\_0213\_20170112\_1500.bin  
Version: irci\_irci\_ecr-master\_20161208\_0213\_20170112\_1500  
md5sum: 59abc311fce49c5a180b5a8a3917912d  
Link: intel/ipu3-fw.bin -> irci\_irci\_ecr-master\_20161208\_0213\_20170112\_1500.bin

Licence: Redistributable. See LICENSE.ipu3\_firmware for details

-----  
Driver: cx231xx - Conexant Cx23100/101/102 USB broadcast A/V decoder

File: v4l-cx231xx-avcore-01.fw

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-----  
Driver: tehuti - Tehuti Networks 10G Ethernet

File: tehuti/bdx.bin

Licence:

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Found in hex form in kernel source.

-----  
Driver: typhoon - 3cr990 series Typhoon

File: 3com/typhoon.bin

Licence:

/\*

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*/
```

Found in hex form in kernel source.

-----  
Driver: yam - YAM driver for AX.25

File: yam/1200.bin

File: yam/9600.bin

Licence:

```
* (C) F6FBB 1998
```

Found in hex form in kernel source.

-----  
Driver: 3c359 - 3Com 3C359 Token Link Velocity XL adapter

File: 3com/3C359.bin

Licence:

```
/*  
* The firmware this driver downloads into the tokenring card is a  
* separate program and is not GPL'd source code, even though the Linux  
* side driver and the routine that loads this data into the card are.  
*  
* This firmware is licensed to you strictly for use in conjunction  
* with the use of 3Com 3C359 TokenRing adapters. There is no  
* warranty expressed or implied about its fitness for any purpose.  
*/  
/* 3c359_microcode.mac: 3Com 3C359 Tokenring microcode.  
*  
* Notes:  
* - Loaded from xl_init upon adapter initialization.
```

\*  
\* Available from 3Com as part of their standard 3C359 driver.  
\*/

Found in hex form in kernel source.

-----  
Driver: pcnet\_cs - NE2000 compatible PCMCIA adapter

File: cis/LA-PCM.cis  
File: cis/PCMLM28.cis  
File: cis/DP83903.cis  
File: cis/NE2K.cis  
File: cis/tamarack.cis  
File: cis/PE-200.cis  
File: cis/PE520.cis  
Source: cis/

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project  
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-----  
Driver: 3c589\_cs - 3Com PCMCIA adapter

File: cis/3CXEM556.cis  
Source: cis/src/3CXEM556.cis

Licence: Dual GPLv2/MPL

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-----  
Driver: 3c574\_cs - 3Com PCMCIA adapter

File: cis/3CCFEM556.cis  
Source: cis/src/3CCFEM556.cis

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project  
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-----

Driver: serial\_cs - Serial PCMCIA adapter

File: cis/MT5634ZLX.cis  
File: cis/RS-COM-2P.cis  
File: cis/COMpad2.cis  
File: cis/COMpad4.cis  
Source: cis/src/MT5634ZLX.cis  
Source: cis/src/RS-COM-2P.cis  
Source: cis/src/COMpad2.cis  
Source: cis/src/COMpad4.cis

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project  
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-----  
Driver: serial\_cs - Serial PCMCIA adapter

File: cis/SW\_555\_SER.cis  
File: cis/SW\_7xx\_SER.cis  
File: cis/SW\_8xx\_SER.cis

Licence: GPLv3. See GPL-3 for details.

Copyright Sierra Wireless

-----  
Driver: smc91c92\_cs - SMC 91Cxx PCMCIA

File: ositech/Xilinx7OD.bin

Licence: Allegedly GPL, but no source visible. Marked:  
This file contains the firmware of Seven of Diamonds from OSITECH.  
(Special thanks to Kevin MacPherson of OSITECH)

Found in hex form in kernel source.

-----  
Driver: cx23418 - Conexant PCI Broadcast A/V with MPEG encoder

File: v4l-cx23418-apu.fw  
File: v4l-cx23418-cpu.fw  
File: v4l-cx23418-dig.fw

Licence: Redistributable.

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-----

Driver: cx23885 - Conexant PCI Express Broadcast A/V decoder

File: v4l-cx23885-avcore-01.fw

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-----

Driver: cx23840 - Conexant sideport Broadcast A/V decoder

File: v4l-cx25840.fw

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-----

Driver: qlogicpti - PTI Qlogic, ISP Driver

File: qlogic/ispl000.bin

Licence: Unknown

Found in hex form in kernel source.



-----  
Driver: myri\_sbus - MyriCOM Gigabit Ethernet

File: myricom/lanai.bin

Licence: Unknown

Found in hex form in kernel source.  
-----

Driver: bnx2x: Broadcom Everest

File: bnx2x-e1-4.8.53.0.fw

File: bnx2x-e1h-4.8.53.0.fw

File: bnx2x-e1-5.2.7.0.fw

File: bnx2x-e1h-5.2.7.0.fw

File: bnx2x-e1-5.2.13.0.fw

File: bnx2x-e1h-5.2.13.0.fw

File: bnx2x/bnx2x-e1-6.0.34.0.fw

File: bnx2x/bnx2x-e1h-6.0.34.0.fw

File: bnx2x/bnx2x-e2-6.0.34.0.fw

File: bnx2x/bnx2x-e1-6.2.5.0.fw

File: bnx2x/bnx2x-e1h-6.2.5.0.fw

File: bnx2x/bnx2x-e2-6.2.5.0.fw

File: bnx2x/bnx2x-e1-6.2.9.0.fw

File: bnx2x/bnx2x-e1h-6.2.9.0.fw

File: bnx2x/bnx2x-e2-6.2.9.0.fw

File: bnx2x/bnx2x-e2-7.0.20.0.fw

File: bnx2x/bnx2x-e1-7.0.20.0.fw

File: bnx2x/bnx2x-e1h-7.0.20.0.fw

File: bnx2x/bnx2x-e2-7.0.23.0.fw

File: bnx2x/bnx2x-e1-7.0.23.0.fw

File: bnx2x/bnx2x-e1h-7.0.23.0.fw

File: bnx2x/bnx2x-e2-7.0.29.0.fw

File: bnx2x/bnx2x-e1-7.0.29.0.fw

File: bnx2x/bnx2x-e1h-7.0.29.0.fw

File: bnx2x/bnx2x-e2-7.2.16.0.fw

File: bnx2x/bnx2x-e1-7.2.16.0.fw

File: bnx2x/bnx2x-e1h-7.2.16.0.fw

File: bnx2x/bnx2x-e2-7.2.51.0.fw

File: bnx2x/bnx2x-e1-7.2.51.0.fw

File: bnx2x/bnx2x-e1h-7.2.51.0.fw

File: bnx2x/bnx2x-e1-7.8.2.0.fw

File: bnx2x/bnx2x-e1h-7.8.2.0.fw

File: bnx2x/bnx2x-e2-7.8.2.0.fw

File: bnx2x/bnx2x-e1-7.8.17.0.fw

File: bnx2x/bnx2x-e1h-7.8.17.0.fw

File: bnx2x/bnx2x-e2-7.8.17.0.fw

File: bnx2x/bnx2x-e1-7.8.19.0.fw  
File: bnx2x/bnx2x-e1h-7.8.19.0.fw  
File: bnx2x/bnx2x-e2-7.8.19.0.fw  
File: bnx2x/bnx2x-e1-7.10.51.0.fw  
File: bnx2x/bnx2x-e1h-7.10.51.0.fw  
File: bnx2x/bnx2x-e2-7.10.51.0.fw  
File: bnx2x/bnx2x-e1-7.12.30.0.fw  
File: bnx2x/bnx2x-e1h-7.12.30.0.fw  
File: bnx2x/bnx2x-e2-7.12.30.0.fw  
File: bnx2x/bnx2x-e1-7.13.1.0.fw  
File: bnx2x/bnx2x-e1h-7.13.1.0.fw  
File: bnx2x/bnx2x-e2-7.13.1.0.fw  
File: bnx2x/bnx2x-e1-7.13.11.0.fw  
File: bnx2x/bnx2x-e1h-7.13.11.0.fw  
File: bnx2x/bnx2x-e2-7.13.11.0.fw  
File: bnx2x/bnx2x-e1-7.13.15.0.fw  
File: bnx2x/bnx2x-e1h-7.13.15.0.fw  
File: bnx2x/bnx2x-e2-7.13.15.0.fw  
File: bnx2x/bnx2x-e1-7.13.21.0.fw  
File: bnx2x/bnx2x-e1h-7.13.21.0.fw  
File: bnx2x/bnx2x-e2-7.13.21.0.fw

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Found in hex form in kernel source.

-----  
Driver: bnx2 - Broadcom NetXtremeII

File: bnx2/bnx2-mips-06-4.6.16.fw  
File: bnx2/bnx2-mips-06-5.0.0.j3.fw  
File: bnx2/bnx2-mips-06-5.0.0.j6.fw  
File: bnx2/bnx2-mips-06-6.0.15.fw  
File: bnx2/bnx2-mips-06-6.2.1.fw  
File: bnx2/bnx2-mips-06-6.2.3.fw  
File: bnx2/bnx2-mips-09-4.6.17.fw  
File: bnx2/bnx2-mips-09-5.0.0.j3.fw  
File: bnx2/bnx2-mips-09-5.0.0.j9.fw  
File: bnx2/bnx2-mips-09-5.0.0.j15.fw

File: bnx2/bnx2-mips-09-6.0.17.fw  
File: bnx2/bnx2-mips-09-6.2.1.fw  
File: bnx2/bnx2-mips-09-6.2.1a.fw  
File: bnx2/bnx2-mips-09-6.2.1b.fw  
File: bnx2/bnx2-rv2p-06-4.6.16.fw  
File: bnx2/bnx2-rv2p-06-5.0.0.j3.fw  
File: bnx2/bnx2-rv2p-06-6.0.15.fw  
File: bnx2/bnx2-rv2p-09-4.6.15.fw  
File: bnx2/bnx2-rv2p-09-5.0.0.j3.fw  
File: bnx2/bnx2-rv2p-09-5.0.0.j10.fw  
File: bnx2/bnx2-rv2p-09-6.0.17.fw  
File: bnx2/bnx2-rv2p-09ax-5.0.0.j3.fw  
File: bnx2/bnx2-rv2p-09ax-5.0.0.j10.fw  
File: bnx2/bnx2-rv2p-09ax-6.0.17.fw

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Found in hex form in kernel source.

-----  
Driver: netxen\_nic - NetXen Multi port (1/10) Gigabit Ethernet NIC

File: phanfw.bin

Version: 4.0.590

Licence: Redistributable. See LICENCE.phanfw for details.

Available from [http://ldriver.qlogic.com/firmware/netxen\\_nic/new/](http://ldriver.qlogic.com/firmware/netxen_nic/new/)

-----  
Driver: dvb-ttpci -- AV7110 cards

File: av7110/bootcode.bin

Source: av7110/Boot.S

Source: av7110/Makefile

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

ARM assembly source code from <https://linuxtv.org/downloads/firmware/Boot.S>

Driver: snd-wavefront - ISA WaveFront sound card

File: yamaha/yss225\_registers.bin

Licence: Allegedly GPLv2+, but no source visible.

Found in hex form in kernel source, with the following comment:

Copyright (c) 1998-2002 by Paul Davis <pbd@op.net>

-----  
Driver: rt61pci - Ralink RT2561, RT2561S, RT2661 wireless MACs

File: rt2561.bin

File: rt2561s.bin

File: rt2661.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from <http://www.ralinktech.com/ralink/Home/Support/Linux.html>

-----  
Driver: rt73usb - Ralink RT2571W, RT2671 wireless MACs

File: rt73.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from <http://www.ralinktech.com/ralink/Home/Support/Linux.html>

-----  
Driver: mt7601u - MediaTek MT7601U Wireless MACs

File: mt7601u.bin

Version: 34

Licence: Redistributable. See LICENCE.ralink\_a\_mediatek\_company\_firmware for details

Downloaded from <http://www.mediatek.com/en/downloads/>

-----  
Driver: rt2800pci - Ralink RT2860, RT2890, RT3090, RT3290, RT5390 wireless MACs

File: rt2860.bin

Version: 40

File: rt3290.bin

Version: 37

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Binary file supplied originally by Shiang Tu <shiang\_tu@ralinktech.com>, latest from <http://www.mediatek.com/en/downloads1/downloads/>

-----  
Driver: rt2860sta - Ralink RT3090 wireless MACs

Link: rt3090.bin -> rt2860.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

-----  
Driver: rt2800usb - Ralink RT2870, RT3070, RT3071, RT3072, RT5370 wireless MACs

File: rt2870.bin

Version: 36

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Binary file supplied originally by Shiang Tu <shiang\_tu@ralinktech.com>, latest from <http://www.mediatek.com/en/downloads1/downloads/>

-----  
Driver: rt2870sta - Ralink RT2870, RT3070, RT3071 wireless MACs

Link: rt3070.bin -> rt2870.bin

File: rt3071.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

rt3071.bin is a copy of bytes 4096-8191 of rt2870.bin for compatibility.

-----  
Driver: usbdux/usbduxfast/usbduxsigma - usbdux data acquisition cards

File: usbdux\_firmware.bin

File: usbduxfast\_firmware.bin

File: usbduxsigma\_firmware.bin

Source: usbdux/

Licence: GPLv2. See GPL-2 for details.

Provided from the author, Bernd Porr <BerndPorr@f2s.com>

-----  
Driver: xc4000 - Xceive 4000 Tuner driver

File: dvb-fe-xc4000-1.4.1.fw

Version: 1.4.1

Licence: Redistributable. See LICENCE.xc4000 for details

-----  
Driver: xc5000 - Xceive 5000 Tuner driver

File: dvb-fe-xc5000-1.6.114.fw

Version: 1.6.114

File: dvb-fe-xc5000c-4.1.30.7.fw

Version: 4.1.30.7

Licence: Redistributable. See LICENCE.xc5000 and LICENCE.xc5000c for details

-----  
Driver: dib0700 - DiBcom dib0700 USB DVB bridge driver

File: dvb-usb-dib0700-1.20.fw

Version: 1.20

Licence: Redistributable. See LICENSE.dib0700 for details

-----  
Driver: ath3k - DFU Driver for Atheros bluetooth chipset AR3011

File: ath3k-1.fw

Version: 1.0

Fix EEPROM radio table issue and change PID to 3005

Licence: Redistributable. See LICENCE.atheros\_firmware for details

-----  
Driver: mga - Matrox G200/G400/G550

File: matrox/g200\_warp.fw

File: matrox/g400\_warp.fw

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Found in hex form in kernel source.

-----  
Driver: r128 - ATI Rage 128

File: r128/r128\_cce.bin

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-----  
Driver: radeon - ATI Radeon

File: radeon/R100\_cp.bin  
File: radeon/R200\_cp.bin  
File: radeon/R300\_cp.bin  
File: radeon/R420\_cp.bin  
File: radeon/RS600\_cp.bin  
File: radeon/RS690\_cp.bin  
File: radeon/R520\_cp.bin  
File: radeon/R600\_pfp.bin  
File: radeon/R600\_me.bin  
File: radeon/RV610\_pfp.bin  
File: radeon/RV610\_me.bin  
File: radeon/RV630\_pfp.bin  
File: radeon/RV630\_me.bin  
File: radeon/RV620\_pfp.bin  
File: radeon/RV620\_me.bin  
File: radeon/RV635\_pfp.bin  
File: radeon/RV635\_me.bin  
File: radeon/RV670\_pfp.bin  
File: radeon/RV670\_me.bin  
File: radeon/RS780\_pfp.bin  
File: radeon/RS780\_me.bin  
File: radeon/RV770\_pfp.bin  
File: radeon/RV770\_me.bin  
File: radeon/RV730\_pfp.bin  
File: radeon/RV730\_me.bin  
File: radeon/RV710\_pfp.bin  
File: radeon/RV710\_me.bin

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Found in hex form in kernel source.

-----  
Driver: radeon - ATI Radeon

File: radeon/R600\_rlc.bin  
File: radeon/R600\_uvd.bin  
File: radeon/RS780\_uvd.bin  
File: radeon/R700\_rlc.bin  
File: radeon/RV710\_uvd.bin  
File: radeon/RV710\_smc.bin  
File: radeon/RV730\_smc.bin  
File: radeon/RV740\_smc.bin  
File: radeon/RV770\_smc.bin  
File: radeon/RV770\_uvd.bin  
File: radeon/CEDAR\_me.bin  
File: radeon/CEDAR\_pfp.bin  
File: radeon/CEDAR\_rlc.bin  
File: radeon/CEDAR\_smc.bin  
File: radeon/CYPRESS\_me.bin  
File: radeon/CYPRESS\_pfp.bin  
File: radeon/CYPRESS\_rlc.bin  
File: radeon/CYPRESS\_uvd.bin  
File: radeon/CYPRESS\_smc.bin  
File: radeon/JUNIPER\_me.bin  
File: radeon/JUNIPER\_pfp.bin  
File: radeon/JUNIPER\_rlc.bin  
File: radeon/JUNIPER\_smc.bin  
File: radeon/REDWOOD\_me.bin  
File: radeon/REDWOOD\_pfp.bin  
File: radeon/REDWOOD\_rlc.bin  
File: radeon/REDWOOD\_smc.bin  
File: radeon/PALM\_me.bin  
File: radeon/PALM\_pfp.bin  
File: radeon/SUMO\_rlc.bin  
File: radeon/SUMO\_uvd.bin  
File: radeon/BARTS\_mc.bin  
File: radeon/BARTS\_me.bin

File: radeon/BARTS\_pfp.bin  
File: radeon/BARTS\_smc.bin  
File: radeon/BTC\_rlc.bin  
File: radeon/CAICOS\_mc.bin  
File: radeon/CAICOS\_me.bin  
File: radeon/CAICOS\_pfp.bin  
File: radeon/CAICOS\_smc.bin  
File: radeon/TURKS\_mc.bin  
File: radeon/TURKS\_me.bin  
File: radeon/TURKS\_pfp.bin  
File: radeon/TURKS\_smc.bin  
File: radeon/CAYMAN\_mc.bin  
File: radeon/CAYMAN\_me.bin  
File: radeon/CAYMAN\_pfp.bin  
File: radeon/CAYMAN\_rlc.bin  
File: radeon/CAYMAN\_smc.bin  
File: radeon/SUMO\_pfp.bin  
File: radeon/SUMO\_me.bin  
File: radeon/SUMO2\_pfp.bin  
File: radeon/SUMO2\_me.bin  
File: radeon/ARUBA\_me.bin  
File: radeon/ARUBA\_pfp.bin  
File: radeon/ARUBA\_rlc.bin  
File: radeon/PITCAIRN\_ce.bin  
File: radeon/PITCAIRN\_mc.bin  
File: radeon/PITCAIRN\_mc2.bin  
File: radeon/PITCAIRN\_me.bin  
File: radeon/PITCAIRN\_pfp.bin  
File: radeon/PITCAIRN\_rlc.bin  
File: radeon/PITCAIRN\_smc.bin  
File: radeon/TAHITI\_ce.bin  
File: radeon/TAHITI\_mc.bin  
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File: radeon/mullins\_vce.bin  
File: radeon/banks\_k\_2\_smc.bin  
File: radeon/si58\_mc.bin

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Driver: amdgpu - AMD Radeon

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File: amdgpu/navi12\_dmcu.bin  
File: amdgpu/navi12\_gpu\_info.bin  
File: amdgpu/navi12\_me.bin  
File: amdgpu/navi12\_mec.bin  
File: amdgpu/navi12\_mec2.bin  
File: amdgpu/navi12\_pfp.bin  
File: amdgpu/navi12\_rlc.bin  
File: amdgpu/navi12\_sdma.bin  
File: amdgpu/navi12\_sdma1.bin  
File: amdgpu/navi12\_smc.bin  
File: amdgpu/navi12\_sos.bin  
File: amdgpu/navi12\_vcn.bin  
File: amdgpu/navi12\_ta.bin  
File: amdgpu/renoir\_asd.bin  
File: amdgpu/renoir\_ce.bin  
File: amdgpu/renoir\_gpu\_info.bin  
File: amdgpu/renoir\_me.bin  
File: amdgpu/renoir\_mec.bin  
File: amdgpu/renoir\_mec2.bin  
File: amdgpu/renoir\_pfp.bin  
File: amdgpu/renoir\_rlc.bin  
File: amdgpu/renoir\_sdma.bin

File: amdgpu/renoir\_vcn.bin  
File: amdgpu/renoir\_dmcub.bin  
File: amdgpu/renoir\_ta.bin  
File: amdgpu/sienna\_cichlid\_ce.bin  
File: amdgpu/sienna\_cichlid\_dmcub.bin  
File: amdgpu/sienna\_cichlid\_me.bin  
File: amdgpu/sienna\_cichlid\_mec.bin  
File: amdgpu/sienna\_cichlid\_mec2.bin  
File: amdgpu/sienna\_cichlid\_pfp.bin  
File: amdgpu/sienna\_cichlid\_rlc.bin  
File: amdgpu/sienna\_cichlid\_sdma.bin  
File: amdgpu/sienna\_cichlid\_smc.bin  
File: amdgpu/sienna\_cichlid\_sos.bin  
File: amdgpu/sienna\_cichlid\_ta.bin  
File: amdgpu/sienna\_cichlid\_vcn.bin  
File: amdgpu/green\_sardine\_asd.bin  
File: amdgpu/green\_sardine\_ce.bin  
File: amdgpu/green\_sardine\_dmcub.bin  
File: amdgpu/green\_sardine\_me.bin  
File: amdgpu/green\_sardine\_mec2.bin  
File: amdgpu/green\_sardine\_mec.bin  
File: amdgpu/green\_sardine\_pfp.bin  
File: amdgpu/green\_sardine\_rlc.bin  
File: amdgpu/green\_sardine\_sdma.bin  
File: amdgpu/green\_sardine\_ta.bin  
File: amdgpu/green\_sardine\_vcn.bin  
File: amdgpu/navy\_flounder\_ce.bin  
File: amdgpu/navy\_flounder\_dmcub.bin  
File: amdgpu/navy\_flounder\_me.bin  
File: amdgpu/navy\_flounder\_mec.bin  
File: amdgpu/navy\_flounder\_mec2.bin  
File: amdgpu/navy\_flounder\_pfp.bin  
File: amdgpu/navy\_flounder\_rlc.bin  
File: amdgpu/navy\_flounder\_sdma.bin  
File: amdgpu/navy\_flounder\_smc.bin  
File: amdgpu/navy\_flounder\_sos.bin  
File: amdgpu/navy\_flounder\_ta.bin  
File: amdgpu/navy\_flounder\_vcn.bin  
File: amdgpu/arcturus\_asd.bin  
File: amdgpu/arcturus\_gpu\_info.bin  
File: amdgpu/arcturus\_mec2.bin  
File: amdgpu/arcturus\_mec.bin  
File: amdgpu/arcturus\_rlc.bin  
File: amdgpu/arcturus\_sdma.bin  
File: amdgpu/arcturus\_smc.bin  
File: amdgpu/arcturus\_sos.bin  
File: amdgpu/arcturus\_ta.bin  
File: amdgpu/arcturus\_vcn.bin  
File: amdgpu/dimgrey\_cavefish\_ce.bin  
File: amdgpu/dimgrey\_cavefish\_dmcub.bin

File: amdgpu/dimgrey\_cavefish\_me.bin  
File: amdgpu/dimgrey\_cavefish\_mec.bin  
File: amdgpu/dimgrey\_cavefish\_mec2.bin  
File: amdgpu/dimgrey\_cavefish\_pfp.bin  
File: amdgpu/dimgrey\_cavefish\_rlc.bin  
File: amdgpu/dimgrey\_cavefish\_sdma.bin  
File: amdgpu/dimgrey\_cavefish\_smc.bin  
File: amdgpu/dimgrey\_cavefish\_sos.bin  
File: amdgpu/dimgrey\_cavefish\_ta.bin  
File: amdgpu/dimgrey\_cavefish\_vcn.bin  
File: amdgpu/vangogh\_asd.bin  
File: amdgpu/vangogh\_ce.bin  
File: amdgpu/vangogh\_dmcub.bin  
File: amdgpu/vangogh\_me.bin  
File: amdgpu/vangogh\_mec2.bin  
File: amdgpu/vangogh\_mec.bin  
File: amdgpu/vangogh\_pfp.bin  
File: amdgpu/vangogh\_rlc.bin  
File: amdgpu/vangogh\_sdma.bin  
File: amdgpu/vangogh\_toc.bin  
File: amdgpu/vangogh\_vcn.bin  
File: amdgpu/yellow\_carp\_asd.bin  
File: amdgpu/yellow\_carp\_ce.bin  
File: amdgpu/yellow\_carp\_dmcub.bin  
File: amdgpu/yellow\_carp\_me.bin  
File: amdgpu/yellow\_carp\_mec.bin  
File: amdgpu/yellow\_carp\_mec2.bin  
File: amdgpu/yellow\_carp\_pfp.bin  
File: amdgpu/yellow\_carp\_rlc.bin  
File: amdgpu/yellow\_carp\_sdma.bin  
File: amdgpu/yellow\_carp\_ta.bin  
File: amdgpu/yellow\_carp\_toc.bin  
File: amdgpu/yellow\_carp\_vcn.bin  
File: amdgpu/beige\_goby\_ce.bin  
File: amdgpu/beige\_goby\_dmcub.bin  
File: amdgpu/beige\_goby\_me.bin  
File: amdgpu/beige\_goby\_mec.bin  
File: amdgpu/beige\_goby\_mec2.bin  
File: amdgpu/beige\_goby\_pfp.bin  
File: amdgpu/beige\_goby\_rlc.bin  
File: amdgpu/beige\_goby\_sdma.bin  
File: amdgpu/beige\_goby\_smc.bin  
File: amdgpu/beige\_goby\_sos.bin  
File: amdgpu/beige\_goby\_ta.bin  
File: amdgpu/beige\_goby\_vcn.bin  
File: amdgpu/cyan\_skillfish2\_ce.bin  
File: amdgpu/cyan\_skillfish2\_me.bin  
File: amdgpu/cyan\_skillfish2\_mec.bin  
File: amdgpu/cyan\_skillfish2\_mec2.bin  
File: amdgpu/cyan\_skillfish2\_pfp.bin

File: amdgpu/cyan\_skillfish2\_rlc.bin  
File: amdgpu/cyan\_skillfish2\_sdma.bin  
File: amdgpu/cyan\_skillfish2\_sdma1.bin  
File: amdgpu/aldebaran\_mec2.bin  
File: amdgpu/aldebaran\_mec.bin  
File: amdgpu/aldebaran\_rlc.bin  
File: amdgpu/aldebaran\_sdma.bin  
File: amdgpu/aldebaran\_smc.bin  
File: amdgpu/aldebaran\_sos.bin  
File: amdgpu/aldebaran\_ta.bin  
File: amdgpu/aldebaran\_vcn.bin  
File: amdgpu/gc\_10\_3\_7\_ce.bin  
File: amdgpu/gc\_10\_3\_7\_me.bin  
File: amdgpu/gc\_10\_3\_7\_mec.bin  
File: amdgpu/gc\_10\_3\_7\_mec2.bin  
File: amdgpu/gc\_10\_3\_7\_pfp.bin  
File: amdgpu/gc\_10\_3\_7\_rlc.bin  
File: amdgpu/dcn\_3\_1\_6\_dmcub.bin  
File: amdgpu/psp\_13\_0\_8\_asd.bin  
File: amdgpu/psp\_13\_0\_8\_ta.bin  
File: amdgpu/psp\_13\_0\_8\_toc.bin  
File: amdgpu/sdma\_5\_2\_7.bin

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-----  
Driver: s2255drv

File: f2255usb.bin  
Version: 1.2.8

Licence: Redistributable.

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-----  
Driver: rtl8192e - Realtek 8192 PCI wireless driver

File: RTL8192E/boot.img  
File: RTL8192E/data.img  
File: RTL8192E/main.img

Licence: Redistributable, provided by Realtek in their driver  
source download.

-----  
Driver: lgs8gxx - Legend Silicon GB20600 demodulator driver

File: lgs8g75.fw

Licence: Unknown

-----  
Driver: ib\_qib - QLogic Infiniband

File: qlogic/sd7220.fw

Licence:

```
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```

Found in hex form in kernel source.



-----  
Driver: qed - QLogic 4xxxx Ethernet Driver Core Module.

File: qed/qed\_init\_values\_zipped-8.4.2.0.bin  
File: qed/qed\_init\_values\_zipped-8.7.3.0.bin  
File: qed/qed\_init\_values\_zipped-8.10.5.0.bin  
File: qed/qed\_init\_values-8.10.9.0.bin  
File: qed/qed\_init\_values\_zipped-8.10.10.0.bin  
File: qed/qed\_init\_values-8.14.6.0.bin  
File: qed/qed\_init\_values\_zipped-8.15.3.0.bin  
File: qed/qed\_init\_values-8.18.9.0.bin  
File: qed/qed\_init\_values\_zipped-8.20.0.0.bin  
File: qed/qed\_init\_values-8.20.0.0.bin  
File: qed/qed\_init\_values-8.30.12.0.bin  
File: qed/qed\_init\_values\_zipped-8.33.1.0.bin  
File: qed/qed\_init\_values\_zipped-8.33.11.0.bin  
File: qed/qed\_init\_values-8.33.12.0.bin  
File: qed/qed\_init\_values\_zipped-8.37.2.0.bin  
File: qed/qed\_init\_values\_zipped-8.37.7.0.bin  
File: qed/qed\_init\_values-8.37.7.0.bin  
File: qed/qed\_init\_values-8.40.33.0.bin  
File: qed/qed\_init\_values\_zipped-8.42.2.0.bin  
File: qed/qed\_init\_values\_zipped-8.59.1.0.bin

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-----  
Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle IV Chipset

File: ueagle-atm/CMV4p.bin.v2  
File: ueagle-atm/DSP4p.bin  
File: ueagle-atm/eagleIV.fw  
Version: 1.0

Licence: Redistributable. See LICENCE.ueagle-atm4-firmware for details

-----  
Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle I,II,III

File: ueagle-atm/930-fpga.bin  
File: ueagle-atm/CMVeIWO.bin  
File: ueagle-atm/CMVepFR10.bin  
File: ueagle-atm/DSP9p.bin  
File: ueagle-atm/eagleIII.fw  
File: ueagle-atm/adi930.fw  
File: ueagle-atm/CMVep.bin  
File: ueagle-atm/CMVepFR.bin  
File: ueagle-atm/DSPei.bin  
File: ueagle-atm/CMV9i.bin  
File: ueagle-atm/CMVepES03.bin  
File: ueagle-atm/CMVepIT.bin  
File: ueagle-atm/DSPep.bin  
File: ueagle-atm/CMV9p.bin  
File: ueagle-atm/CMVepES.bin  
File: ueagle-atm/CMVepWO.bin  
File: ueagle-atm/eagleI.fw  
File: ueagle-atm/CMVeI.bin  
File: ueagle-atm/CMVepFR04.bin  
File: ueagle-atm/DSP9i.bin  
File: ueagle-atm/eagleII.fw  
Version: 1.1

Licence: Redistributable. Based on  
<https://mail.gna.org/public/eagleusb-dev/2004-11/msg00172.html>

-----  
Driver: vxge - Exar X3100 Series 10GbE PCIe I/O Virtualized Server Adapter

File: vxge/X3fw.ncf  
File: vxge/X3fw-pxe.ncf  
Version: 1.8.1

Licence:

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-----  
Driver: brcmsmac - Broadcom 802.11n softmac wireless LAN driver.

File: brcm/bcm43xx-0.fw  
File: brcm/bcm43xx\_hdr-0.fw  
Version: 610.812

Licence: Redistributable. See LICENCE.broadcom\_bcm43xx for details.

-----  
Driver: brcmfmac - Broadcom 802.11n fullmac wireless LAN driver.

File: brcm/bcm4329-fullmac-4.bin  
File: brcm/brcmfmac43236b.bin  
File: brcm/brcmfmac4329-sdio.bin  
File: brcm/brcmfmac4330-sdio.bin  
File: brcm/brcmfmac4334-sdio.bin  
File: brcm/brcmfmac4335-sdio.bin  
File: brcm/brcmfmac43241b0-sdio.bin  
File: brcm/brcmfmac43241b4-sdio.bin  
File: brcm/brcmfmac43241b5-sdio.bin  
File: brcm/brcmfmac43242a.bin  
File: brcm/brcmfmac43143.bin  
File: brcm/brcmfmac43143-sdio.bin  
File: brcm/brcmfmac43430a0-sdio.bin  
File: brcm/brcmfmac4350c2-pcie.bin  
File: brcm/brcmfmac4350-pcie.bin  
File: brcm/brcmfmac43569.bin  
File: brcm/brcmfmac4358-pcie.bin  
File: brcm/brcmfmac43602-pcie.bin  
File: brcm/brcmfmac43602-pcie.ap.bin  
File: brcm/brcmfmac4366b-pcie.bin  
File: brcm/brcmfmac4366c-pcie.bin  
File: brcm/brcmfmac4371-pcie.bin

Licence: Redistributable. See LICENCE.broadcom\_bcm43xx for details.

File: brcm/brcmfmac4373.bin  
File: cypress/cyfmac43012-sdio.bin  
Link: brcm/brcmfmac43012-sdio.bin -> ../cypress/cyfmac43012-sdio.bin  
File: cypress/cyfmac43012-sdio.clm\_blob  
Link: brcm/brcmfmac43012-sdio.clm\_blob -> ../cypress/cyfmac43012-sdio.clm\_blob  
File: cypress/cyfmac43340-sdio.bin  
Link: brcm/brcmfmac43340-sdio.bin -> ../cypress/cyfmac43340-sdio.bin  
File: cypress/cyfmac43362-sdio.bin  
Link: brcm/brcmfmac43362-sdio.bin -> ../cypress/cyfmac43362-sdio.bin  
File: cypress/cyfmac4339-sdio.bin  
Link: brcm/brcmfmac4339-sdio.bin -> ../cypress/cyfmac4339-sdio.bin  
File: cypress/cyfmac43430-sdio.bin  
Link: brcm/brcmfmac43430-sdio.bin -> ../cypress/cyfmac43430-sdio.bin  
File: cypress/cyfmac43430-sdio.clm\_blob  
Link: brcm/brcmfmac43430-sdio.clm\_blob -> ../cypress/cyfmac43430-sdio.clm\_blob  
File: cypress/cyfmac43455-sdio.bin  
Link: brcm/brcmfmac43455-sdio.bin -> ../cypress/cyfmac43455-sdio.bin  
File: cypress/cyfmac43455-sdio.clm\_blob

```

Link: brcm/brcmfmac43455-sdio.clm_blob -> ../cypress/cyfmac43455-sdio.clm_blob
File: cypress/cyfmac4354-sdio.bin
Link: brcm/brcmfmac4354-sdio.bin -> ../cypress/cyfmac4354-sdio.bin
File: cypress/cyfmac4354-sdio.clm_blob
Link: brcm/brcmfmac4354-sdio.clm_blob -> ../cypress/cyfmac4354-sdio.clm_blob
File: cypress/cyfmac4356-pcie.bin
Link: brcm/brcmfmac4356-pcie.bin -> ../cypress/cyfmac4356-pcie.bin
File: cypress/cyfmac4356-pcie.clm_blob
Link: brcm/brcmfmac4356-pcie.clm_blob -> ../cypress/cyfmac4356-pcie.clm_blob
File: cypress/cyfmac4356-sdio.bin
Link: brcm/brcmfmac4356-sdio.bin -> ../cypress/cyfmac4356-sdio.bin
File: cypress/cyfmac4356-sdio.clm_blob
Link: brcm/brcmfmac4356-sdio.clm_blob -> ../cypress/cyfmac4356-sdio.clm_blob
File: cypress/cyfmac43570-pcie.bin
Link: brcm/brcmfmac43570-pcie.bin -> ../cypress/cyfmac43570-pcie.bin
File: cypress/cyfmac43570-pcie.clm_blob
Link: brcm/brcmfmac43570-pcie.clm_blob -> ../cypress/cyfmac43570-pcie.clm_blob
File: cypress/cyfmac4373-sdio.bin
Link: brcm/brcmfmac4373-sdio.bin -> ../cypress/cyfmac4373-sdio.bin
File: cypress/cyfmac4373-sdio.clm_blob
Link: brcm/brcmfmac4373-sdio.clm_blob -> ../cypress/cyfmac4373-sdio.clm_blob
File: cypress/cyfmac54591-pcie.bin
Link: brcm/brcmfmac54591-pcie.bin -> ../cypress/cyfmac54591-pcie.bin
File: cypress/cyfmac54591-pcie.clm_blob
Link: brcm/brcmfmac54591-pcie.clm_blob -> ../cypress/cyfmac54591-pcie.clm_blob

```

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```

File: "brcm/brcmfmac4330-sdio.Prowise-PT301.txt"
File: "brcm/brcmfmac43340-sdio.meegopad-t08.txt"
File: "brcm/brcmfmac43340-sdio.pov-tab-p1006w-data.txt"
File: "brcm/brcmfmac43340-sdio.predia-basic.txt"
File: "brcm/brcmfmac43362-sdio.cubietech,cubietruck.txt"
Link: brcm/brcmfmac43362-sdio.lemaker,bananapro.txt ->
brcmfmac43362-sdio.cubietech,cubietruck.txt
File: "brcm/brcmfmac43430a0-sdio.ilife-S806.txt"
File: "brcm/brcmfmac43430a0-sdio.jumper-ezpad-mini3.txt"
File: "brcm/brcmfmac43430a0-sdio.ONDA-V80 PLUS.txt"
File: "brcm/brcmfmac43430-sdio.AP6212.txt"
Link: brcm/brcmfmac43430-sdio.sinovoip,bpi-m2-plus.txt ->
brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.sinovoip,bpi-m2-zero.txt ->
brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.sinovoip,bpi-m2-ultra.txt ->
brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.sinovoip,bpi-m3.txt -> brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.friendlyarm,nanopi-r1.txt ->
brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.starfive,visionfive-v1.txt ->
brcmfmac43430-sdio.AP6212.txt

```

```

Link: brcm/brcmfmac43430-sdio.beagle,beaglev-starlight-jh7100-a1.txt ->
brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.beagle,beaglev-starlight-jh7100-r0.txt ->
brcmfmac43430-sdio.AP6212.txt
File: "brcm/brcmfmac43430-sdio.Hampoo-D2D3_Vi8A1.txt"
File: "brcm/brcmfmac43430-sdio.MUR1DX.txt"
File: "brcm/brcmfmac43430-sdio.raspberrypi,3-model-b.txt"
Link: brcm/brcmfmac43430-sdio.raspberrypi,model-zero-w.txt ->
brcmfmac43430-sdio.raspberrypi,3-model-b.txt
File: "brcm/brcmfmac43455-sdio.acepc-t8.txt"
File: "brcm/brcmfmac43455-sdio.pine64,quartz64-b.txt"
File: "brcm/brcmfmac43455-sdio.raspberrypi,3-model-b-plus.txt"
Link: brcm/brcmfmac43455-sdio.raspberrypi,3-model-a-plus.txt ->
brcmfmac43455-sdio.raspberrypi,3-model-b-plus.txt
File: "brcm/brcmfmac43455-sdio.raspberrypi,4-model-b.txt"
Link: brcm/brcmfmac43455-sdio.Raspberry\ Pi\ Foundation-Raspberry\ Pi\ 4\
Model\ B.txt -> brcmfmac43455-sdio.raspberrypi,4-model-b.txt
Link: brcm/brcmfmac43455-sdio.Raspberry\ Pi\ Foundation-Raspberry\ Pi\ Compute\
Module\ 4.txt -> brcmfmac43455-sdio.raspberrypi,4-model-b.txt
File: "brcm/brcmfmac43455-sdio.MINIX-NEO Z83-4.txt"
File: "brcm/brcmfmac4356-pcie.gpd-win-pocket.txt"
File: brcm/brcmfmac4356-sdio.AP6356S.txt
Link: brcm/brcmfmac4356-sdio.firefly,firefly-rk3399.txt ->
brcmfmac4356-sdio.AP6356S.txt
Link: brcm/brcmfmac4356-sdio.khadas,vim2.txt -> brcmfmac4356-sdio.AP6356S.txt
Link: brcm/brcmfmac4356-sdio.vamrs,rock960.txt -> brcmfmac4356-sdio.AP6356S.txt

```

Licence: GPLv2. See GPL-2 for details.

-----

Driver: tda7706 - FM radio Highly integrated tuner for AM/FM car-radio

File: TDA7706\_OM\_v2.5.1\_boot.txt  
File: TDA7706\_OM\_v3.0.2\_boot.txt

Licence: Redistributable. See LICENCE.tda7706-firmware.txt for details.  
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-----

Driver: ti-vpe - Texas Instruments V4L2 driver for Video Processing Engine

File: ti/vpdma-1b8.bin

Licence: Redistributable. See LICENCE.ti-tspa for details.

-----

Driver: wll251 - Texas Instruments 802.11 WLAN driver for WiLink4 chips

File: ti-connectivity/wl1251-fw.bin

Version: 4.0.4.3.7

File: ti-connectivity/wl1251-nvs.bin

Licence: Redistributable. See LICENCE.wl1251 for details.

The published NVS files are for testing only. Every device needs to have a unique NVS which is properly calibrated for best results.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

-----  
Driver: wl12xx - Texas Instruments 802.11 WLAN driver for WiLink6/7 chips

File: ti-connectivity/wl1271-fw.bin

Version: 6.1.0.50.350 (STA-only)

File: ti-connectivity/wl1271-fw-2.bin

Version: 6.1.5.50.74 (STA-only)

File: ti-connectivity/wl1271-fw-ap.bin

Version: 6.2.1.0.54 (AP-only)

File: ti-connectivity/wl127x-fw-3.bin

Version: 6.3.0.0.77

File: ti-connectivity/wl127x-fw-plt-3.bin

Version: 6.3.0.0.77 (PLT-only)

File: ti-connectivity/wl127x-fw-4-sr.bin

Version: 6.3.5.0.98 (Single-role)

File: ti-connectivity/wl127x-fw-4-mr.bin

Version: 6.5.2.0.15 (Multi-role)

File: ti-connectivity/wl127x-fw-4-plt.bin

Version: 6.3.5.0.98 (PLT-only)

File: ti-connectivity/wl127x-fw-5-sr.bin

Version: 6.3.10.0.142 (Single-role)

File: ti-connectivity/wl127x-fw-5-mr.bin

Version: 6.5.7.0.50 (Multi-role)

File: ti-connectivity/wl127x-fw-5-plt.bin

Version: 6.3.10.0.142 (PLT-only)

File: ti-connectivity/wl128x-fw.bin

Version: 7.1.5.50.74 (STA-only)

File: ti-connectivity/wl128x-fw-ap.bin

Version: 7.2.1.0.54 (AP-only)

File: ti-connectivity/wl128x-fw-3.bin

Version: 7.3.0.0.77

File: ti-connectivity/wl128x-fw-plt-3.bin

Version: 7.3.0.0.77

```
File: ti-connectivity/wl128x-fw-4-sr.bin
Version: 7.3.5.0.98 (Single-role)
File: ti-connectivity/wl128x-fw-4-mr.bin
Version: 7.5.2.0.15 (Multi-role)
File: ti-connectivity/wl128x-fw-4-plt.bin
Version: 7.3.5.0.98 (PLT)
File: ti-connectivity/wl128x-fw-5-sr.bin
Version: 7.3.10.0.142 (Single-role)
File: ti-connectivity/wl128x-fw-5-mr.bin
Version: 7.5.7.0.50 (Multi-role)
File: ti-connectivity/wl128x-fw-5-plt.bin
Version: 7.3.10.2.142 (PLT-only)
```

```
File: ti-connectivity/wl127x-nvs.bin
File: ti-connectivity/wl128x-nvs.bin
Link: ti-connectivity/wl12xx-nvs.bin -> wl127x-nvs.bin
Link: ti-connectivity/wl1271-nvs.bin -> wl127x-nvs.bin
```

Licence: Redistributable. See LICENCE.ti-connectivity for details.

The NVS file includes two parts:

- radio calibration
- HW configuration parameters (aka. INI values)

The published NVS files are for testing only. Every device needs to have a unique NVS which is properly calibrated for best results. You can find more information about NVS generation for your device here:

<http://wireless.kernel.org/en/users/Drivers/wl12xx/calibrator>

If you're using a wl127x based device, use a symbolic link called wl1271-nvs.bin that links to the wl127x-nvs.bin file. If you are using wl128x, link to wl128x-nvs.bin instead.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

-----

Driver: wl18xx - Texas Instruments 802.11 WLAN driver for WiLink8 chips

```
File: ti-connectivity/wl18xx-fw.bin
Version: 8.2.0.0.100
File: ti-connectivity/wl18xx-fw-2.bin
Version: 8.5.0.0.55
File: ti-connectivity/wl18xx-fw-3.bin
Version: 8.8.0.0.13
File: ti-connectivity/wl18xx-fw-4.bin
```

Version: 8.9.0.0.79

Licence: Redistributable. See LICENCE.ti-connectivity for details.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wll8xx chips must be located in /lib/firmware/ti-connectivity/.

-----  
Driver: TI\_ST - Texas Instruments bluetooth driver

File: ti-connectivity/TIInit\_6.2.31.bts

Version: 2.44 (TI\_P31.123)

File: ti-connectivity/TIInit\_6.6.15.bts

Version: 2.14 (TI\_P6\_15.93)

File: ti-connectivity/TIInit\_7.2.31.bts

Licence: Redistributable. See LICENCE.ti-connectivity for details.

TIInit\_7.2.31.bts version 7.2.31

In order to use that file copy it to /lib/firmware/ti-connectivity.

-----  
Driver: tlg2300 - Telgent 2300 V4L/DVB driver.

File: tlg2300\_firmware.bin

Licence: Redistributable.

Telegent System grants permission to use and redistribute these firmware files for use with devices containing the chip tlg2300, but not as a part of the Linux kernel or in any other form which would require these files themselves to be covered by the terms of the GNU General Public License. These firmware files are distributed in the hope that they will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

-----  
Driver: r8712u - Realtek 802.11n WLAN driver for RTL8712U

File: rtlwifi/rtl8712u.bin

Info: From Vendor's rtl8712\_8188\_8191\_8192SU\_usb\_linux\_v7\_0.20100831

Reverted rtl8188C\_8192C\_8192D\_usb\_linux\_v3.4.2\_3727.20120404



Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

-----  
Driver: rtl8192ce - Realtek 802.11n WLAN driver for RTL8192CE

File: rtlwifi/rtl8192cfw.bin

File: rtlwifi/rtl8192cfwU.bin

File: rtlwifi/rtl8192cfwU\_B.bin

Info: From Vendor's realtek/rtlwifi\_linux\_mac80211\_0019.0320.2014V628 driver

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

-----  
Driver: rtl8192cu - Realtek 802.11n WLAN driver for RTL8192CU

File: rtlwifi/rtl8192cufw.bin

File: rtlwifi/rtl8192cufw\_A.bin

File: rtlwifi/rtl8192cufw\_B.bin

File: rtlwifi/rtl8192cufw\_TMSC.bin

Info: From Vendor's rtl8188C\_8192C\_usb\_linux\_v4.0.1\_6911.20130308 driver

All files extracted from driver/hal/rtl8192c/usb/Hal8192CUHWImg.c

Relevant variables (CONFIG\_BT\_COEXISTENCE not set):

- rtlwifi/rtl8192cufw\_A.bin: Rtl8192CUFwUMCACutImgArray

- rtlwifi/rtl8192cufw\_B.bin: Rtl8192CUFwUMCBCutImgArray

- rtlwifi/rtl8192cufw\_TMSC.bin: Rtl8192CUFwTSMCImpArray

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

-----  
Driver: rtl8192se - Realtek 802.11n WLAN driver for RTL8192SE

Info: updated from rtl\_92ce\_92se\_92de\_linux\_mac80211\_0004.0816.2011 driver version

File: rtlwifi/rtl8192sefw.bin

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

-----  
Driver: rtl8192de - Realtek 802.11n WLAN driver for RTL8192DE

Info: Updated from Realtek version

rtl\_92ce\_92se\_92de\_8723ae\_linux\_mac80211\_0007.0809.2012

File: rtlwifi/rtl8192defw.bin

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

Driver: rtl8723e - Realtek 802.11n WLAN driver for RTL8723E

Info: Taken from Realtek version  
rtl\_92ce\_92se\_92de\_8723ae\_linux\_mac80211\_0007.0809.2012  
File: rtlwifi/rtl8723fw.bin  
File: rtlwifi/rtl8723fw\_B.bin

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

-----

Driver: rtl8723be - Realtek 802.11n WLAN driver for RTL8723BE

Info: From Vendor's realtek/rtlwifi\_linux\_mac80211\_0019.0320.2014V628 driver  
File: rtlwifi/rtl8723befw.bin  
Info: Update to version 36 - Sent by Realtek  
File: rtlwifi/rtl8723befw\_36.bin

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

-----

Driver: rtl8723de - Realtek 802.11ac WLAN driver for RTL8723DE

Info: Supplied by Vendor at [https://github.com/pkshih/rtlwifi\\_rtl8723de](https://github.com/pkshih/rtlwifi_rtl8723de)  
File: rtlwifi/rtl8723defw.bin

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

-----

Driver: r8723au - Realtek 802.11n WLAN driver for RTL8723AU

Info: Taken from Realtek driver rtl8723A\_WiFi\_linux\_v4.1.3\_6044.20121224  
Firmware is embedded in the driver as data statements. This info  
has been extracted into a binary file.  
File: rtlwifi/rtl8723aufw\_A.bin  
File: rtlwifi/rtl8723aufw\_B.bin  
File: rtlwifi/rtl8723aufw\_B\_NoBT.bin

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

-----

Driver: rtl8188ee - Realtek 802.11n WLAN driver for RTL8188EE

Info: Taken from Realtek version  
rtl\_92ce\_92se\_92de\_8723ae\_88ee\_linux\_mac80211\_0010.0109.2013  
File: rtlwifi/rtl8188efw.bin

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

-----

Driver: rtl8188eu - Realtek 802.11n WLAN driver for RTL8188EU

Info: Taken from Realtek version RTL8188EUS\_linux\_v4.1.4\_6773.20130222

File: rtlwifi/rtl8188eufw.bin

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

-----

Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8821AE

Info: From Vendor's realtek/rtlwifi\_linux\_mac80211\_0019.0320.2014V628 driver

File: rtlwifi/rtl8821aefw.bin

File: rtlwifi/rtl8821aefw\_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

-----

Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8821AE

Info: From Vendor's realtek/rtlwifi\_linux\_mac80211\_0019.0320.2014V628 driver

File: rtlwifi/rtl8821aefw.bin

File: rtlwifi/rtl8821aefw\_wowlan.bin

Info: Update to version 29 - Sent by Realtek

File: rtlwifi/rtl8821aefw\_29.bin

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

-----

Driver: rtl8822be - Realtek 802.11n WLAN driver for RTL8822BE

Info: Sent to Larry Finger by Realtek engineer Ping-Ke Shih <pkshih@realtek.com>

File: rtlwifi/rtl8822befw.bin

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

-----

Driver: rtw88 - Realtek 802.11ac WLAN driver for RTL8822BE and RTL8822CE

Info: Sent to Larry Finger by Realtek engineer Yan-Hsuan Chuang

<yhchuang@realtek.com>

File: rtw88/rtw8822b\_fw.bin

File: rtw88/rtw8822c\_fw.bin  
File: rtw88/rtw8822c\_wow\_fw.bin  
File: rtw88/README  
File: rtw88/rtw8723d\_fw.bin  
File: rtw88/rtw8821c\_fw.bin

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

-----  
These firmware should be put under /lib/firmware/rtw88/  
And note that the rtw88 driver is able to support wake-on-wireless LAN  
for RTL8822C devices, after kernel v5.6+. So, make sure the firmware  
rtw88/rtw8822c\_wow\_fw.bin is also packed, otherwise the firmware load  
fail could be a problem.  
Although RTL8723D devices are 802.11n device, they are also supported  
by rtw88 because the hardware arch is similar.

-----  
Driver: rtw89 - Realtek 802.11ax WLAN driver for RTL8852A

File: rtw89/rtw8852a\_fw.bin  
File: rtw89/rtw8852c\_fw.bin

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

-----  
Driver: rtl8192ee - Realtek 802.11n WLAN driver for RTL8192EE

Info: Initial version taken from Realtek version  
rtl\_92ce\_92se\_92de\_8723ae\_88ee\_8723be\_92ee\_linux\_mac80211\_0017.1224.2013  
Updated Jan. 14, 2015 with file added by Realtek to  
[http://github.com/lwfinger/rtlwifi\\_new.git](http://github.com/lwfinger/rtlwifi_new.git).  
Same firmware rtl8192eu\_nic.bin so just link them  
Link: rtlwifi/rtl8192eefw.bin -> rtl8192eu\_nic.bin

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

-----  
Driver: rtl8723bs - Realtek 802.11n WLAN driver for RTL8723BS

Info: Firmware files extracted from data statements in Realtek driver  
v4.3.5.5\_12290.20140916\_BTCOEX20140507-4E40.  
File: rtlwifi/rtl8723bs\_bt.bin  
Link: rtlwifi/rtl8723bs\_nic.bin -> rtl8723bu\_nic.bin  
Link: rtlwifi/rtl8723bs\_ap\_wowlan.bin -> rtl8723bu\_ap\_wowlan.bin  
Link: rtlwifi/rtl8723bs\_wowlan.bin -> rtl8723bu\_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

-----  
Driver: rtl8xxxu - Realtek 802.11n WLAN driver for RTL8XXX USB devices

Info: rtl8723au taken from Realtek driver  
rtl8723A\_WiFi\_linux\_v4.1.3\_6044.20121224  
Firmware is embedded in the driver as data statements. This info  
has been extracted into a binary file.

File: rtlwifi/rtl8723aufw\_A.bin

File: rtlwifi/rtl8723aufw\_B.bin

File: rtlwifi/rtl8723aufw\_B\_NoBT.bin

Info: rtl8723bu taken from Realtek driver  
rtl8723BU\_WiFi\_linux\_v4.3.16\_14189.20150519\_BTCOEX20150119-5844  
Firmware is embedded in the driver as data statements. This info  
has been extracted into a binary file.

File: rtlwifi/rtl8723bu\_nic.bin

File: rtlwifi/rtl8723bu\_wowlan.bin

File: rtlwifi/rtl8723bu\_ap\_wowlan.bin

Info: rtl8192eu taken from Realtek driver  
rtl8192EU\_linux\_v4.3.1.1\_11320.20140505  
Firmware is embedded in the driver as data statements. This info  
has been extracted into a binary file.

File: rtlwifi/rtl8192eu\_nic.bin

File: rtlwifi/rtl8192eu\_wowlan.bin

File: rtlwifi/rtl8192eu\_ap\_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.  
-----

Driver: r8169 - RealTek 8169/8168/8101 ethernet driver.

File: rtl\_nic/rtl8168d-1.fw

File: rtl\_nic/rtl8168d-2.fw

File: rtl\_nic/rtl8105e-1.fw

File: rtl\_nic/rtl8168e-1.fw

File: rtl\_nic/rtl8168e-2.fw

File: rtl\_nic/rtl8168e-3.fw

Version: 0.0.4

File: rtl\_nic/rtl8168f-1.fw

Version: 0.0.5

File: rtl\_nic/rtl8168f-2.fw

Version: 0.0.4

File: rtl\_nic/rtl8411-1.fw  
Version: 0.0.3

File: rtl\_nic/rtl8411-2.fw  
Version: 0.0.1

File: rtl\_nic/rtl8402-1.fw  
Version: 0.0.1

File: rtl\_nic/rtl8106e-1.fw  
Version: 0.0.1

File: rtl\_nic/rtl8106e-2.fw  
Version: 0.0.1

File: rtl\_nic/rtl8168g-1.fw  
Version: 0.0.3

File: rtl\_nic/rtl8168g-2.fw  
Version: 0.0.1

File: rtl\_nic/rtl8168g-3.fw  
Version: 0.0.1

File: rtl\_nic/rtl8168h-1.fw  
Version: 0.0.2

File: rtl\_nic/rtl8168h-2.fw  
Version: 0.0.2

File: rtl\_nic/rtl8168fp-3.fw  
Version: 0.0.1

File: rtl\_nic/rtl8107e-1.fw  
Version: 0.0.2

File: rtl\_nic/rtl8107e-2.fw  
Version: 0.0.2

File: rtl\_nic/rtl8125a-3.fw  
Version: 0.0.1

File: rtl\_nic/rtl8125b-1.fw  
Version: 0.0.2

File: rtl\_nic/rtl8125b-2.fw  
Version: 0.0.2

Licence:

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\*  
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\* notice is accompanying it.

-----  
Driver: r8152 - Realtek RTL8152/RTL8153 Based USB Ethernet Adapters

File: rtl\_nic/rtl8153a-2.fw  
File: rtl\_nic/rtl8153a-3.fw  
File: rtl\_nic/rtl8153a-4.fw  
File: rtl\_nic/rtl8153b-2.fw  
File: rtl\_nic/rtl8153c-1.fw  
File: rtl\_nic/rtl8156a-2.fw  
File: rtl\_nic/rtl8156b-2.fw

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

-----  
Driver: vt6656 - VIA VT6656 USB wireless driver

File: vntwusb.fw

Licence: Redistributable. See LICENCE.via\_vt6656 for details.

-----  
Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT\_0x01020001.dfu  
File: ar3k/ramps\_0x01020001\_26.dfu  
File: ar3k/AthrBT\_0x01020200.dfu  
File: ar3k/ramps\_0x01020200\_26.dfu  
File: ar3k/ramps\_0x01020200\_40.dfu  
File: ar3k/AthrBT\_0x31010000.dfu  
File: ar3k/ramps\_0x31010000\_40.dfu  
File: ar3k/AthrBT\_0x11020000.dfu  
File: ar3k/ramps\_0x11020000\_40.dfu  
File: ar3k/ramps\_0x01020201\_26.dfu  
File: ar3k/ramps\_0x01020201\_40.dfu  
File: ar3k/AthrBT\_0x41020000.dfu  
File: ar3k/ramps\_0x41020000\_40.dfu  
File: ar3k/AthrBT\_0x11020100.dfu  
File: ar3k/ramps\_0x11020100\_40.dfu  
File: ar3k/AthrBT\_0x31010100.dfu  
File: ar3k/ramps\_0x31010100\_40.dfu

Licence: Redistributable. See LICENCE.atheros\_firmware for details

-----  
Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT\_0x01020201.dfu

File: ar3k/1020201coex/ramps\_0x01020201\_26\_HighPriority.dfu

Licence: Redistributable. See LICENSE.QualcommAtheros\_ar3k for details  
-----

Driver:Atheros AR300x UART HCI Bluetooth Chip driver

File: ar3k/1020201/PS\_ASIC.pst

File: ar3k/1020201/RamPatch.txt

File: ar3k/1020200/ar3kbdaddr.pst

File: ar3k/1020200/PS\_ASIC.pst

File: ar3k/1020200/RamPatch.txt

File: ar3k/30101/ar3kbdaddr.pst

File: ar3k/30101/PS\_ASIC.pst

File: ar3k/30101/RamPatch.txt

File: ar3k/30000/ar3kbdaddr.pst

File: ar3k/30000/PS\_ASIC.pst

File: ar3k/30000/RamPatch.txt

Licence: Redistributable. See LICENSE.atheros\_firmware for details  
-----

Driver: ath6kl - Atheros support for AR6003

File: ath6k/AR6004/hw1.3/fw-3.bin

File: ath6k/AR6004/hw1.3/bdata.bin

File: ath6k/AR6004/hw1.2/fw-2.bin

File: ath6k/AR6004/hw1.2/bdata.bin

File: ath6k/AR6003/hw1.0/otp.bin.z77

File: ath6k/AR6003/hw1.0/bdata.SD31.bin

File: ath6k/AR6003/hw1.0/bdata.SD32.bin

File: ath6k/AR6003/hw1.0/data.patch.bin

File: ath6k/AR6003/hw1.0/bdata.WB31.bin

File: ath6k/AR6003/hw1.0/athwlan.bin.z77

File: ath6k/AR6003/hw2.1.1/fw-2.bin

File: ath6k/AR6003/hw2.1.1/fw-3.bin

File: ath6k/AR6003/hw2.1.1/otp.bin

File: ath6k/AR6003/hw2.1.1/athwlan.bin

File: ath6k/AR6003/hw2.1.1/endpointping.bin

File: ath6k/AR6003/hw2.1.1/bdata.SD31.bin

File: ath6k/AR6003/hw2.1.1/bdata.SD32.bin

File: ath6k/AR6003/hw2.1.1/data.patch.bin



File: ath6k/AR6003/hw2.1.1/bdata.WB31.bin  
File: ath6k/AR6003/hw2.0/otp.bin.z77  
File: ath6k/AR6003/hw2.0/bdata.SD31.bin  
File: ath6k/AR6003/hw2.0/bdata.SD32.bin  
File: ath6k/AR6003/hw2.0/data.patch.bin  
File: ath6k/AR6003/hw2.0/bdata.WB31.bin  
File: ath6k/AR6003/hw2.0/athwlan.bin.z77  
File: ath6k/AR6002/eeprom.data  
File: ath6k/AR6002/eeprom.bin  
File: ath6k/AR6002/athwlan.bin.z77  
File: ath6k/AR6002/data.patch.hw2\_0.bin

Licence: Redistributable. See LICENCE.atheros\_firmware for details

-----  
Driver: ath10k - Qualcomm Atheros support for QCA988x family of chips

File: ath10k/QCA988X/hw2.0/board.bin  
File: ath10k/QCA988X/hw2.0/firmware-4.bin  
Version: 10.2.4.45  
File: ath10k/QCA988X/hw2.0/notice\_ath10k\_firmware-4.txt  
File: ath10k/QCA988X/hw2.0/firmware-5.bin  
Version: 10.2.4-1.0-00047  
File: ath10k/QCA988X/hw2.0/notice\_ath10k\_firmware-5.txt  
File: ath10k/QCA6174/hw2.1/board.bin  
File: ath10k/QCA6174/hw2.1/board-2.bin  
File: ath10k/QCA6174/hw2.1/firmware-5.bin  
Version: SW\_RM.1.1.1-00157-QCARMSWPZ-1  
File: ath10k/QCA6174/hw2.1/notice\_ath10k\_firmware-5.txt  
File: ath10k/QCA6174/hw3.0/board.bin  
File: ath10k/QCA6174/hw3.0/board-2.bin  
File: ath10k/QCA6174/hw3.0/firmware-4.bin  
Version: WLAN.RM.2.0-00180-QCARMSWPZ-1  
File: ath10k/QCA6174/hw3.0/notice\_ath10k\_firmware-4.txt  
File: ath10k/QCA6174/hw3.0/firmware-6.bin  
Version: WLAN.RM.4.4.1-00288-QCARMSWPZ-1  
File: ath10k/QCA6174/hw3.0/notice\_ath10k\_firmware-6.txt  
File: ath10k/QCA6174/hw3.0/firmware-sdio-6.bin  
Version: WLAN.RMH.4.4.1-00077  
File: ath10k/QCA6174/hw3.0/notice\_ath10k\_firmware-sdio-6.txt  
File: ath10k/QCA9377/hw1.0/board.bin  
File: ath10k/QCA9377/hw1.0/board-2.bin  
File: ath10k/QCA9377/hw1.0/firmware-5.bin  
Version: WLAN.TF.1.0-00002-QCATFSWPZ-5  
File: ath10k/QCA9377/hw1.0/notice\_ath10k\_firmware-5.txt  
File: ath10k/QCA9377/hw1.0/firmware-sdio-5.bin  
Version: WLAN.TF.1.1.1-00061-QCATFSWPZ-1  
File: ath10k/QCA9377/hw1.0/notice\_ath10k\_firmware-sdio-5.txt  
File: ath10k/QCA99X0/hw2.0/board-2.bin

```

File: ath10k/QCA99X0/hw2.0/firmware-5.bin
Version: 10.4.1.00030-1
File: ath10k/QCA99X0/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA4019/hw1.0/board-2.bin
File: ath10k/QCA4019/hw1.0/firmware-5.bin
Version: 10.4-3.6-00140
File: ath10k/QCA4019/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9887/hw1.0/board.bin
File: ath10k/QCA9887/hw1.0/firmware-5.bin
Version: 10.2.4-1.0-00047
File: ath10k/QCA9887/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9888/hw2.0/board-2.bin
File: ath10k/QCA9888/hw2.0/firmware-5.bin
Version: 10.4-3.9.0.2-00157
File: ath10k/QCA9888/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9984/hw1.0/board-2.bin
File: ath10k/QCA9984/hw1.0/firmware-5.bin
Version: 10.4-3.9.0.2-00157
File: ath10k/QCA9984/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9377/hw1.0/firmware-6.bin
Version: WLAN.TF.2.1-00021-QCARMSWP-1
File: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-6.txt
File: ath10k/WCN3990/hw1.0/board-2.bin
File: ath10k/WCN3990/hw1.0/firmware-5.bin
File: ath10k/WCN3990/hw1.0/wlanmdsp.mbn
Link: qcom/sdm845/wlanmdsp.mbn -> ../../ath10k/WCN3990/hw1.0/wlanmdsp.mbn
Version: WLAN.HL.2.0-01387-QCAHLSWMTPLZ-1
File: ath10k/WCN3990/hw1.0/notice.txt_wlanmdsp

```

Licence: Redistributable. See LICENSE.QualcommAtheros\_ath10k for details

-----

Driver: ath11k - Qualcomm Technologies 802.11ax chipset support

```

File: ath11k/IPQ6018/hw1.0/board-2.bin
File: ath11k/IPQ6018/hw1.0/m3_fw.b00
File: ath11k/IPQ6018/hw1.0/m3_fw.b01
File: ath11k/IPQ6018/hw1.0/m3_fw.b02
File: ath11k/IPQ6018/hw1.0/m3_fw.flist
File: ath11k/IPQ6018/hw1.0/m3_fw.mdt
File: ath11k/IPQ6018/hw1.0/q6_fw.b00
File: ath11k/IPQ6018/hw1.0/q6_fw.b01
File: ath11k/IPQ6018/hw1.0/q6_fw.b02
File: ath11k/IPQ6018/hw1.0/q6_fw.b03
File: ath11k/IPQ6018/hw1.0/q6_fw.b04
File: ath11k/IPQ6018/hw1.0/q6_fw.b05
File: ath11k/IPQ6018/hw1.0/q6_fw.b07
File: ath11k/IPQ6018/hw1.0/q6_fw.b08
File: ath11k/IPQ6018/hw1.0/q6_fw.flist

```

```
File: ath11k/IPQ6018/hw1.0/q6_fw.mdt
Version: WLAN.HK.2.5.0.1-01208-QCAHKSUWPL_SILICONZ-1
File: ath11k/IPQ6018/hw1.0/Notice.txt
File: ath11k/IPQ8074/hw2.0/board-2.bin
File: ath11k/IPQ8074/hw2.0/m3_fw.b00
File: ath11k/IPQ8074/hw2.0/m3_fw.b01
File: ath11k/IPQ8074/hw2.0/m3_fw.b02
File: ath11k/IPQ8074/hw2.0/m3_fw.flist
File: ath11k/IPQ8074/hw2.0/m3_fw.mdt
File: ath11k/IPQ8074/hw2.0/q6_fw.b00
File: ath11k/IPQ8074/hw2.0/q6_fw.b01
File: ath11k/IPQ8074/hw2.0/q6_fw.b02
File: ath11k/IPQ8074/hw2.0/q6_fw.b03
File: ath11k/IPQ8074/hw2.0/q6_fw.b04
File: ath11k/IPQ8074/hw2.0/q6_fw.b05
File: ath11k/IPQ8074/hw2.0/q6_fw.b07
File: ath11k/IPQ8074/hw2.0/q6_fw.b08
File: ath11k/IPQ8074/hw2.0/q6_fw.flist
File: ath11k/IPQ8074/hw2.0/q6_fw.mdt
Version: WLAN.HK.2.5.0.1-01208-QCAHKSUWPL_SILICONZ-1
File: ath11k/IPQ8074/hw2.0/Notice.txt
File: ath11k/QCA6390/hw2.0/board-2.bin
File: ath11k/QCA6390/hw2.0/amss.bin
File: ath11k/QCA6390/hw2.0/m3.bin
Version: WLAN.HST.1.0.1-05266-QCAHSTSWPLZ_V2_TO_X86-1
File: ath11k/QCA6390/hw2.0/Notice.txt
File: ath11k/WCN6855/hw2.0/regdb.bin
File: ath11k/WCN6855/hw2.0/board-2.bin
File: ath11k/WCN6855/hw2.0/amss.bin
File: ath11k/WCN6855/hw2.0/m3.bin
Version: WLAN.HSP.1.1-03125-QCAHSPSWPL_V1_V2_SILICONZ_LITE-3.6510.9
File: ath11k/WCN6855/hw2.0/Notice.txt
Link: ath11k/WCN6855/hw2.1/regdb.bin -> ../hw2.0/regdb.bin
Link: ath11k/WCN6855/hw2.1/board-2.bin -> ../hw2.0/board-2.bin
Link: ath11k/WCN6855/hw2.1/amss.bin -> ../hw2.0/amss.bin
Link: ath11k/WCN6855/hw2.1/m3.bin -> ../hw2.0/m3.bin
File: ath11k/QCN9074/hw1.0/board-2.bin
File: ath11k/QCN9074/hw1.0/amss.bin
File: ath11k/QCN9074/hw1.0/m3.bin
Version: WLAN.HK.2.5.0.1-01208-QCAHKSUWPL_SILICONZ-1
File: ath11k/QCN9074/hw1.0/Notice.txt
File: ath11k/WCN6750/hw1.0/board-2.bin
File: ath11k/WCN6750/hw1.0/wpss.b00
File: ath11k/WCN6750/hw1.0/wpss.b01
File: ath11k/WCN6750/hw1.0/wpss.b02
File: ath11k/WCN6750/hw1.0/wpss.b03
File: ath11k/WCN6750/hw1.0/wpss.b04
File: ath11k/WCN6750/hw1.0/wpss.b05
File: ath11k/WCN6750/hw1.0/wpss.b06
File: ath11k/WCN6750/hw1.0/wpss.b07
```

File: ath11k/WCN6750/hw1.0/wpss.b08  
File: ath11k/WCN6750/hw1.0/wpss.mdt  
Version: WLAN.MSL.1.0.1-00887-QCAMSLSWPLZ-1  
File: ath11k/WCN6750/hw1.0/Notice.txt

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-----

Driver: myri10ge - Myri10GE 10GbE NIC driver

File: myri10ge\_eth\_z8e.dat  
File: myri10ge\_ethp\_z8e.dat  
File: myri10ge\_rss\_eth\_z8e.dat  
File: myri10ge\_rss\_ethp\_z8e.dat  
File: myri10ge\_eth\_big\_z8e.dat  
File: myri10ge\_ethp\_big\_z8e.dat  
File: myri10ge\_rss\_eth\_big\_z8e.dat  
File: myri10ge\_rss\_ethp\_big\_z8e.dat  
Version: 1.4.57

License: Redistributable. See LICENSE.myri10ge\_firmware for details.

-----

Driver: ath6kl - Atheros support for AR6003 WiFi-Bluetooth combo module

File: ath6k/AR6003.1/hw2.1.1/athwlan.bin  
File: ath6k/AR6003.1/hw2.1.1/bdata.SD31.bin  
File: ath6k/AR6003.1/hw2.1.1/bdata.SD32.bin  
File: ath6k/AR6003.1/hw2.1.1/bdata.WB31.bin  
File: ath6k/AR6003.1/hw2.1.1/data.patch.bin  
File: ath6k/AR6003.1/hw2.1.1/endpointping.bin  
File: ath6k/AR6003.1/hw2.1.1/otp.bin

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-----

Driver: ath6kl - Atheros support for AR3001 WiFi-Bluetooth combo module

File: ar3k/30101coex/ar3kbdaddr.pst  
File: ar3k/30101coex/PS\_ASIC\_aclLowPri.pst  
File: ar3k/30101coex/PS\_ASIC\_aclHighPri.pst  
File: ar3k/30101coex/PS\_ASIC.pst  
File: ar3k/30101coex/RamPatch.txt

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-----

Driver: drxk - Micronas DRX-K demodulator driver

File: dvb-usb-terratec-h5-drxk.fw

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-----  
Driver: ene-ub6250 -- ENE UB6250 SD card reader driver

File: ene-ub6250/sd\_init1.bin

File: ene-ub6250/sd\_init2.bin

File: ene-ub6250/sd\_rdwr.bin

File: ene-ub6250/ms\_init.bin

File: ene-ub6250/msp\_rdwr.bin

File: ene-ub6250/ms\_rdwr.bin

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-----  
Driver: isci -- Intel C600 SAS controller driver

File: isci/isci\_firmware.bin

Source: isci/

Licence: GPLv2. See GPL-2 for details.

-----  
Driver: ar5523 -- Atheros AR5523 based USB Wifi dongles

File: ar5523.bin

Licence: Redistributable. See LICENCE.atheros\_firmware for details

-----  
Driver: s5p-mfc - Samsung MFC video encoder/decoder driver

File: s5p-mfc.fw  
File: s5p-mfc-v6.fw  
File: s5p-mfc-v6-v2.fw  
File: s5p-mfc-v7.fw  
File: s5p-mfc-v8.fw

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-----  
Driver: carl9170 -- Atheros AR9170 802.11 draft-n USB driver

File: carl9170-1.fw  
Version: 1.9.6  
Source: carl9170fw/

Downloaded from <http://linuxwireless.org/en/users/Drivers/carl9170>

Licence: GPLv2. Some build scripts use the New BSD (3-clause) licence.. See GPL-2 for details.

-----  
Driver: snd-hda-codec-ca0132 - Creative Sound Core3D codec

File: ctefx.bin  
File: ctspeq.bin

Licence: Redistributable. See LICENCE.ca0132 for details

Found also in alsa-firmware package.

-----  
Driver: btusb - Bluetooth USB driver

File: intel/ibt-hw-37.7.bseq  
Version: 1316.02.00  
File: intel/ibt-hw-37.7.10-fw-1.80.2.3.d.bseq  
Version: BT\_WilkinsPeak\_B3\_REL\_87\_0001  
File: intel/ibt-hw-37.7.10-fw-1.0.2.3.d.bseq

Version: BT\_WilkinsPeak\_B3\_REL\_87\_0001  
File: intel/ibt-hw-37.7.10-fw-1.80.1.2d.d.bseq  
Version: BT\_WilkinsPeak\_B5\_REL\_42\_0001  
File: intel/ibt-hw-37.7.10-fw-1.0.1.2d.d.bseq  
Version: BT\_WilkinsPeak\_B5\_REL\_42\_0001  
File: intel/ibt-hw-37.8.bseq  
Version: 1339\_02.00  
File: intel/ibt-hw-37.8.10-fw-1.10.2.27.d.bseq  
Version: BT\_StonePeak\_C0\_REL\_59\_0001  
File: intel/ibt-hw-37.8.10-fw-1.10.3.11.e.bseq  
Version: BT\_StonePeak\_D0\_REL\_50\_0002  
File: intel/ibt-hw-37.8.10-fw-22.50.19.14.f.bseq  
Version: BT\_StonePeak\_D1\_REL\_67\_1278  
File: intel/ibt-11-5.ddc  
Version: LnP/SfP\_REL1294  
File: intel/ibt-11-5.sfi  
Version: BT\_LightningPeak\_REL0487  
File: intel/ibt-12-16.ddc  
Version: BT\_WindStormPeak\_REL1299  
File: intel/ibt-12-16.sfi  
Version: BT\_WindStormPeak\_REL1299  
File: intel/ibt-17-16-1.sfi  
Version: BT\_JeffersonPeak\_B0\_B0\_REL20182  
File: intel/ibt-17-16-1.ddc  
Version: BT\_JeffersonPeak\_B0\_B0\_REL20182  
File: intel/ibt-17-2.sfi  
Version: BT\_JeffersonPeak\_B0\_B0\_REL20182  
File: intel/ibt-17-2.ddc  
Version: BT\_JeffersonPeak\_B0\_B0\_REL20182  
File: intel/ibt-17-0-1.sfi  
Version: BT\_JeffersonPeak\_A0\_B0\_REL0201  
File: intel/ibt-17-0-1.ddc  
Version: BT\_JeffersonPeak\_A0\_B0\_REL0201  
File: intel/ibt-17-1.sfi  
Version: BT\_JeffersonPeak\_A0\_B0\_REL0201  
File: intel/ibt-17-1.ddc  
Version: BT\_JeffersonPeak\_A0\_B0\_REL0201  
File: intel/ibt-18-16-1.sfi  
Version: BT\_ThunderPeak\_B0\_B0\_REL20182  
File: intel/ibt-18-16-1.ddc  
Version: BT\_ThunderPeak\_B0\_B0\_REL20182  
File: intel/ibt-18-2.sfi  
Version: BT\_ThunderPeak\_B0\_B0\_REL20182  
File: intel/ibt-18-2.ddc  
Version: BT\_ThunderPeak\_B0\_B0\_REL20182  
File: intel/ibt-18-0-1.sfi  
Version: BT\_ThunderPeak\_A0\_B0\_REL0201  
File: intel/ibt-18-0-1.ddc  
Version: BT\_ThunderPeak\_A0\_B0\_REL0201  
File: intel/ibt-18-1.sfi

Version: BT\_ThunderPeak\_A0\_B0\_REL0201  
File: intel/ibt-18-1.ddc  
Version: BT\_ThunderPeak\_A0\_B0\_REL0201  
File: intel/ibt-20-0-3.sfi  
Version: BT\_CyclonePeak\_A0\_REL43126  
File: intel/ibt-20-0-3.ddc  
Version: BT\_CyclonePeak\_A0\_REL43126  
File: intel/ibt-20-1-3.sfi  
Version: BT\_CyclonePeak\_A0\_REL43126  
File: intel/ibt-20-1-3.ddc  
Version: BT\_CyclonePeak\_A0\_REL43126  
File: intel/ibt-20-1-4.sfi  
Version: BT\_CyclonePeak\_A0\_REL43126  
File: intel/ibt-20-1-4.ddc  
Version: BT\_CyclonePeak\_A0\_REL43126  
File: intel/ibt-19-0-0.sfi  
Version: BT\_Quasar\_REL43126  
File: intel/ibt-19-0-0.ddc  
Version: BT\_Quasar\_REL43126  
File: intel/ibt-19-0-1.sfi  
Version: BT\_Quasar\_REL43126  
File: intel/ibt-19-0-1.ddc  
Version: BT\_Quasar\_REL43126  
File: intel/ibt-19-0-4.sfi  
Version: BT\_HarrisonPeak\_REL43126  
File: intel/ibt-19-0-4.ddc  
Version: BT\_HarrisonPeak\_REL43126  
File: intel/ibt-19-16-4.sfi  
Version: BT\_HarrisonPeak\_REL43126  
File: intel/ibt-19-16-4.ddc  
Version: BT\_HarrisonPeak\_REL43126  
File: intel/ibt-19-32-1.sfi  
Version: BT\_HarrisonPeak\_REL43126  
File: intel/ibt-19-32-1.ddc  
Version: BT\_HarrisonPeak\_REL43126  
File: intel/ibt-19-32-0.sfi  
Version: BT\_HarrisonPeak\_REL43126  
File: intel/ibt-19-32-0.ddc  
Version: BT\_HarrisonPeak\_REL43126  
File: intel/ibt-19-32-4.sfi  
Version: BT\_HarrisonPeak\_REL43126  
File: intel/ibt-19-32-4.ddc  
Version: BT\_HarrisonPeak\_REL43126  
File: intel/ibt-19-240-1.sfi  
Version: BT\_HarrisonPeak\_REL43126  
File: intel/ibt-19-240-1.ddc  
Version: BT\_HarrisonPeak\_REL43126  
File: intel/ibt-19-240-4.sfi  
Version: BT\_HarrisonPeak\_REL43126  
File: intel/ibt-19-240-4.ddc



Version: BT\_HarrisonPeak\_REL43126  
File:intel/ibt-0041-0041.sfi  
Version: BT\_TyphoonPeak\_REL43435  
File:intel/ibt-0041-0041.ddc  
Version: BT\_TyphoonPeak\_REL43435  
File:intel/ibt-0040-0041.sfi  
Version: BT\_Solar\_GfP2\_REL43435  
File:intel/ibt-0040-0041.ddc  
Version: BT\_Solar\_GfP2\_REL43435  
File:intel/ibt-1040-0041.sfi  
Version: BT\_SolarF\_GfP2\_REL43435  
File:intel/ibt-1040-0041.ddc  
Version: BT\_SolarF\_GfP2\_REL43435

File:intel/ibt-0040-1020.sfi  
Version: BT\_Solar\_JfP1\_REL43435  
File:intel/ibt-0040-1020.ddc  
Version: BT\_Solar\_JfP1\_REL43435  
File:intel/ibt-1040-1020.sfi  
Version: BT\_SolarF\_JfP1\_REL43435  
File:intel/ibt-1040-1020.ddc  
Version: BT\_SolarF\_JfP1\_REL43435

File:intel/ibt-0040-2120.sfi  
Version: BT\_Solar\_JfP2\_REL43435  
File:intel/ibt-0040-2120.ddc  
Version: BT\_Solar\_JfP2\_REL43435  
File:intel/ibt-1040-2120.sfi  
Version: BT\_SolarF\_JfP2\_REL43435  
File:intel/ibt-1040-2120.ddc  
Version: BT\_SolarF\_JfP2\_REL43435

File:intel/ibt-0040-4150.sfi  
Version: BT\_Solar\_HrP2\_REL43435  
File:intel/ibt-0040-4150.ddc  
Version: BT\_Solar\_HrP2\_REL43435  
File:intel/ibt-1040-4150.sfi  
Version: BT\_SolarF\_HrP2\_REL43435  
File:intel/ibt-1040-4150.ddc  
Version: BT\_SolarF\_HrP2\_REL43435

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File: rtl\_bt/rtl8192ee\_fw.bin  
File: rtl\_bt/rtl8192eu\_fw.bin  
File: rtl\_bt/rtl8723a\_fw.bin  
File: rtl\_bt/rtl8723b\_fw.bin  
File: rtl\_bt/rtl8723bs\_fw.bin  
File: rtl\_bt/rtl8723bs\_config-OBDA8723.bin  
Link: rtl\_bt/rtl8723bs\_config-OBDA0623.bin -> rtl8723bs\_config-OBDA8723.bin

```
File: rtl_bt/rtl8761a_fw.bin
File: rtl_bt/rtl8761b_fw.bin
File: rtl_bt/rtl8761b_config.bin
File: rtl_bt/rtl8761bu_fw.bin
File: rtl_bt/rtl8761bu_config.bin
File: rtl_bt/rtl8812ae_fw.bin
File: rtl_bt/rtl8821a_fw.bin
Link: rtl_bt/rtl8821a_config.bin -> rtl8821c_config.bin
File: rtl_bt/rtl8822b_fw.bin
File: rtl_bt/rtl8822b_config.bin
File: rtl_bt/rtl8723d_fw.bin
File: rtl_bt/rtl8723d_config.bin
File: rtl_bt/rtl8821c_fw.bin
File: rtl_bt/rtl8821c_config.bin
File: rtl_bt/rtl8822cu_fw.bin
File: rtl_bt/rtl8822cu_config.bin
File: rtl_bt/rtl8822cs_fw.bin
File: rtl_bt/rtl8822cs_config.bin
File: rtl_bt/rtl8852au_fw.bin
File: rtl_bt/rtl8852au_config.bin
File: rtl_bt/rtl8852bu_fw.bin
File: rtl_bt/rtl8852bu_config.bin
File: rtl_bt/rtl8852cu_fw.bin
File: rtl_bt/rtl8852cu_config.bin
```

Licence: Redistributable. See LICENCE.rtlwifi\_firmware.txt for details.

```
Found in vendor driver, linux_bt_usb_2.11.20140423_8723be.rar
From https://github.com/troy-tan/driver_store
Files rtl_bt/rtl8822b_* came directly from Realtek. These files are
updated on April 14, 2017.
Files rtl_bt/rtl8821c_* and rtl_bt/rtl8723d_* came directly from Realtek.
File rtl_bt/rtl8822cu_fw.bin came directly from Realtek.
updated on February 24, 2019
File rtl_bt/rtl8822cu_fw.bin came directly from Realtek.
updated on October 23, 2019
File rtl_bt/rtl8822cu_config.bin came directly from Realtek.
```

```
Found in vendor driver, 20200806_LINUX_BT_DRIVER_RTL8761B_COEX_v0202.zip
File rtl_bt/rtl8761b_fw.bin
File rtl_bt/rtl8761b_config.bin
File rtl_bt/rtl8761bu_fw.bin
File rtl_bt/rtl8761bu_config.bin
-----
```

Driver: btmtk\_usb - Bluetooth USB driver

```
File: mt7650.bin
```

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-----  
Driver: rp2 -- Control RocketPort 2 serial driver

File: rp2.fw

Licence: Redistributable.

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-----  
Driver: go7007

File: go7007/s2250-1.fw

File: go7007/s2250-2.fw

Link: s2250.fw -> go7007/s2250-2.fw

Link: s2250\_loader.fw -> go7007/s2250-1.fw

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File: go7007/go7007fw.bin

File: go7007/go7007tv.bin

File: go7007/lr192.fw

File: go7007/px-m402u.fw

File: go7007/px-tv402u.fw

File: go7007/wis-startrek.fw

Licence: Redistributable. See LICENCE.go7007 for details

-----  
Driver: ccp - Platform Security Processor (PSP) device

File: amd/amd\_sev\_fam17h\_model10xh.sbin  
Version: 2022-2-25  
File: amd/amd\_sev\_fam17h\_model13xh.sbin  
Version: 2022-2-25  
File: amd/amd\_sev\_fam19h\_model10xh.sbin  
Version: 2022-2-25

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-----

Driver: microcode\_amd - AMD CPU Microcode Update Driver for Linux

File: amd-ucode/microcode\_amd.bin  
Version: 2013-07-10  
File: amd-ucode/microcode\_amd\_fam15h.bin  
Version: 2018-05-24  
File: amd-ucode/microcode\_amd\_fam16h.bin  
Version: 2014-10-28  
File: amd-ucode/microcode\_amd\_fam17h.bin  
Version: 2022-04-08  
File: amd-ucode/microcode\_amd\_fam19h.bin  
Version: 2022-04-08

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-----

Driver: mxu11x0 - MOXA UPort 11x0 USB Serial hub driver

File: moxa/moxa-1110.fw  
File: moxa/moxa-1130.fw  
File: moxa/moxa-1131.fw  
File: moxa/moxa-1150.fw  
File: moxa/moxa-1151.fw

License: Redistributable. See LICENCE.moxa for details

-----

Driver: mxuport - MOXA UPort USB Serial hub driver

File: moxa/moxa-1250.fw  
File: moxa/moxa-1251.fw  
File: moxa/moxa-1410.fw  
File: moxa/moxa-1450.fw  
File: moxa/moxa-1451.fw  
File: moxa/moxa-1613.fw  
File: moxa/moxa-1618.fw

File: moxa/moxa-1653.fw

File: moxa/moxa-1658.fw

License: Redistributable. See LICENCE.moxa for details

-----

Driver: cw1200 - ST-E CW1100/CW1200 WLAN driver

File: wsm\_22.bin

Version: WSM395

Licence: Redistributable. See LICENCE.cw1200 for details.

File: sdd\_sagrad\_1091\_1098.bin

License:

Copyright (c) 2011-2013 Sagrad, Inc.

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(Please note that the actual device firmware is separately licensed)

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Driver: BFA/BNA - QLogic BR-series Adapter FC/FCOE drivers

File: cbfw-3.2.1.1.bin

File: ctfw-3.2.1.1.bin

File: ct2fw-3.2.1.1.bin

File: cbfw-3.2.3.0.bin

File: ctfw-3.2.3.0.bin

File: ct2fw-3.2.3.0.bin

File: cbfw-3.2.5.1.bin

File: ctfw-3.2.5.1.bin

File: ct2fw-3.2.5.1.bin

Licence:

This file contains firmware data derived from proprietary unpublished source code.

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Copyright (c) 2014-2015 QLogic Corporation.

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-----  
Driver: qat - Intel(R) QAT crypto accelerator

File: qat\_895xcc.bin  
File: qat\_895xcc\_mmp.bin  
File: qat\_c3xxx.bin  
File: qat\_c3xxx\_mmp.bin  
File: qat\_c62x.bin  
File: qat\_c62x\_mmp.bin  
Link: qat\_mmp.bin -> qat\_895xcc\_mmp.bin

Licence: Redistributable. See LICENCE.qat\_firmware for details

-----  
Driver: rsi -- Redpine Signals Inc 91x driver

File: rsi\_91x.fw

File: rsi/rs9113\_wlan\_qspi.rps  
Version: 1.6.1

File: rsi/rs9113\_wlan\_bt\_dual\_mode.rps  
Version: 1.6.1

File: rsi/rs9113\_ap\_bt\_dual\_mode.rps  
Version: 1.6.1

File: rsi/rs9116\_wlan.rps  
Version: 1.0.5b

File: rsi/rs9116\_wlan\_bt\_classic.rps  
Version: 1.0.5b

Licence:

- \* Firmware is:
- \* Derived from proprietary unpublished source code,
- \* Copyright (C) 2019 Redpine Signals Inc.

```
*
*   Permission is hereby granted for the distribution of this firmware
*   as part of Linux or other Open Source operating system kernel
*   provided this copyright notice is accompanying it.
```

```
-----
Driver: xhci-rcar -- Renesas R-Car Gen2/3 USB 3.0 host controller driver
```

```
File: r8a779x_usb3_v1.dlmem
```

```
File: r8a779x_usb3_v2.dlmem
```

```
File: r8a779x_usb3_v3.dlmem
```

```
Licence: Redistributable. See LICENCE.r8a779x_usb3 for details.
```

```
-----
Driver: snd_soc_sst_acpi
```

```
File: intel/fw_sst_0f28.bin-48kHz_i2s_master
```

```
License: Redistributable. See LICENCE.fw_sst_0f28 for details
```

```
-----
Driver: as102 - Abilis Systems Single DVB-T Receiver
```

```
File: as102_data1_st.hex
```

```
File: as102_data2_st.hex
```

```
License: Redistributable. See LICENCE.Abilis for details
```

```
-----
Driver: it9135 -- ITEtech IT913x DVB-T USB driver
```

```
File: dvb-usb-it9135-01.fw
```

```
File: dvb-usb-it9135-02.fw
```

```
Licence: Redistributable. See LICENCE.it913x for details
```

```
-----
Driver: snd_soc_sst_acpi
```

```
File: intel/IntcSST2.bin
```

```
Version: 8.4.1.77
```

```
License: Redistributable. See LICENCE.IntcSST2 for details
```

-----  
Driver: snd\_intel\_sst\_core

File: intel/fw\_sst\_0f28.bin

File: intel/fw\_sst\_0f28\_ssp0.bin

License: Redistributable. See LICENCE.fw\_sst\_0f28 for details  
-----

Driver: snd\_intel\_sst\_core

File: intel/fw\_sst\_22a8.bin

Version: 01.0B.02.02

License: Redistributable. See LICENCE.fw\_sst\_0f28 for details  
-----

Driver: snd-soc-skl

File: intel/dsp\_fw\_release\_v969.bin

Version: 8.20.00.969

File: intel/dsp\_fw\_release\_v3402.bin

Version: 9.21.00.3402\_161

Link: intel/dsp\_fw\_release.bin -> dsp\_fw\_release\_v3402.bin

License: Redistributable. See LICENCE.adsp\_sst for details

File: intel/dsp\_fw\_bxt\_n\_v2219.bin

Version: 9.22.01.2219\_64

File: intel/dsp\_fw\_bxt\_n\_v3366.bin

Version: 9.22.01.3366\_157

Link: intel/dsp\_fw\_bxt\_n.bin -> dsp\_fw\_bxt\_n\_v3366.bin

License: Redistributable. See LICENCE.adsp\_sst for details

File: intel/dsp\_fw\_kbl\_v701.bin

Version: 9.21.00.701

File: intel/dsp\_fw\_kbl\_v1037.bin

Version: 09.21.00.1037

File: intel/dsp\_fw\_kbl\_v2042.bin

Version: 9.21.00.2042\_46

File: intel/dsp\_fw\_kbl\_v2630.bin

Version: 9.21.00.2630\_97

File: intel/dsp\_fw\_kbl\_v3266.bin

Version: 9.21.00.3266\_144

File: intel/dsp\_fw\_kbl\_v3420.bin

Version: 9.21.00.3420\_163



File: intel/dsp\_fw\_kbl\_v3402.bin  
Version: 9.21.00.3402\_161  
Link: intel/dsp\_fw\_kbl.bin -> dsp\_fw\_kbl\_v3402.bin

License: Redistributable. See LICENCE.adsp\_sst for details

File: intel/dsp\_fw\_glk\_v1814.bin  
Version: 9.92.01.1814  
File: intel/dsp\_fw\_glk\_v2880.bin  
Version: 9.22.00.2880  
File: intel/dsp\_fw\_glk\_v2768.bin  
Version: 9.22.01.2768  
File: intel/dsp\_fw\_glk\_v3366.bin  
Version: 9.22.01.3366\_157  
Link: intel/dsp\_fw\_glk.bin -> dsp\_fw\_glk\_v3366.bin

File: intel/dsp\_fw\_cnl\_v1191.bin  
Version: 10.00.00.1191  
File: intel/dsp\_fw\_cnl\_v1858.bin  
Version: 10.23.00.1858  
Link: intel/dsp\_fw\_cnl.bin -> dsp\_fw\_cnl\_v1858.bin

License: Redistributable. See LICENCE.adsp\_sst for details

-----  
Driver: smsmdtv - Siano MDTV Core module

File: cmmb\_vega\_12mhz.inp  
File: cmmb\_venice\_12mhz.inp  
File: dvb\_nova\_12mhz.inp  
File: dvb\_nova\_12mhz\_b0.inp  
File: isdbt\_nova\_12mhz.inp  
File: isdbt\_nova\_12mhz\_b0.inp  
File: isdbt\_rio.inp  
File: smslxxx-hcw-55xxx-dvbt-02.fw  
File: smslxxx-hcw-55xxx-isdbt-02.fw  
File: smslxxx-nova-a-dvbt-01.fw  
File: smslxxx-nova-b-dvbt-01.fw  
File: smslxxx-stellar-dvbt-01.fw  
File: tdmb\_nova\_12mhz.inp

Licence: Redistributable. See LICENCE.siano for details

-----  
Driver: xhci-tegra -- NVIDIA Tegra XHCI driver

File: nvidia/tegra124/xusb.bin  
Version: v45.46

File: nvidia/tegra210/xusb.bin  
Version: v50.24

File: nvidia/tegra186/xusb.bin  
Version: v55.15

File: nvidia/tegra194/xusb.bin  
Version: v60.06

Licence: Redistributable. See LICENCE.nvidia for details

---

Driver: tegra-vic -- NVIDIA Tegra VIC driver

File: nvidia/tegra124/vic03\_ucose.bin  
Link: nvidia/tegra124/vic.bin -> vic03\_ucose.bin

File: nvidia/tegra210/vic04\_ucose.bin  
Link: nvidia/tegra210/vic.bin -> vic04\_ucose.bin

File: nvidia/tegra186/vic04\_ucose.bin  
Link: nvidia/tegra186/vic.bin -> vic04\_ucose.bin

File: nvidia/tegra194/vic.bin

Licence: Redistributable. See LICENCE.nvidia for details

---

Driver: atusb - ATUSB IEEE 802.15.4 transceiver driver

File: atusb/atusb-0.2.dfu  
Version: 0.2

File: atusb/atusb-0.3.dfu  
Version: 0.3

File: atusb/rzusb-0.3.bin  
Version: 0.3

Info: atusb/ChangeLog

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

---

Driver: btqca - Qualcomm Atheros Bluetooth support for QCA61x4 chips

File: qca/nvm\_usb\_00000201.bin

File: qca/nvm\_usb\_00000200.bin

File: qca/nvm\_usb\_00000300.bin

File: qca/nvm\_usb\_00000302.bin  
File: qca/nvm\_00130300.bin  
File: qca/nvm\_00130302.bin  
File: qca/nvm\_00230302.bin  
File: qca/rampatch\_usb\_00000200.bin  
File: qca/rampatch\_usb\_00000201.bin  
File: qca/rampatch\_usb\_00000300.bin  
File: qca/rampatch\_usb\_00000302.bin  
File: qca/rampatch\_00130300.bin  
File: qca/rampatch\_00130302.bin  
File: qca/rampatch\_00230302.bin  
File: qca/nvm\_00440302.bin  
File: qca/rampatch\_00440302.bin  
File: qca/nvm\_00440302\_eu.bin  
File: qca/nvm\_00440302\_i2s\_eu.bin  
File: qca/nvm\_usb\_00000302\_eu.bin  
File: qca/htbtfw20.tlv  
File: qca/htnv20.bin  
File: qca/rampatch\_usb\_00130200.bin  
File: qca/nvm\_usb\_00130200.bin  
File: qca/nvm\_usb\_00130200\_0104.bin  
File: qca/nvm\_usb\_00130200\_0105.bin  
File: qca/nvm\_usb\_00130200\_0106.bin  
File: qca/nvm\_usb\_00130200\_0107.bin  
File: qca/nvm\_usb\_00130200\_0109.bin  
File: qca/nvm\_usb\_00130200\_0110.bin  
File: qca/rampatch\_usb\_00130201.bin  
File: qca/nvm\_usb\_00130201.bin  
File: qca/nvm\_usb\_00130201\_010a.bin  
File: qca/nvm\_usb\_00130201\_010b.bin  
File: qca/nvm\_usb\_00130201\_0303.bin  
File: qca/nvm\_usb\_00130201\_gf.bin  
File: qca/nvm\_usb\_00130201\_gf\_010a.bin  
File: qca/nvm\_usb\_00130201\_gf\_010b.bin  
File: qca/nvm\_usb\_00130201\_gf\_0303.bin

Licence: Redistributable. See LICENSE.QualcommAtheros\_ath10k and qca/NOTICE.txt for details

-----  
Driver: qca - Qualcomm Atheros Bluetooth support for WCN399x chips

File: qca/crbtfw21.tlv  
File: qca/crnv21.bin  
File: qca/crbtfw32.tlv  
File: qca/crnv32.bin  
File: qca/crnv32u.bin

Driver: qca - Qualcomm Atheros Bluetooth support for WCN6750 chips

File: qca/msbtfw11.mbn  
File: qca/msbtfw11.tlv  
File: qca/msnv11.bin

Licence: Redistributable. See LICENSE.QualcommAtheros\_ath10k and qca/NOTICE.txt for details

-----  
Driver: liquidio -- Cavium LiquidIO driver

File: liquidio/lio\_23xx\_nic.bin  
Version: v1.7.2

File: liquidio/lio\_23xx\_vsw.bin  
Version: v1.7.2

File: liquidio/lio\_210nv\_nic.bin  
Version: v1.7.2

File: liquidio/lio\_210sv\_nic.bin  
Version: v1.7.2

File: liquidio/lio\_410nv\_nic.bin  
Version: v1.7.2

Licence: Redistributable. See LICENCE.cavium\_liquidio for details

-----  
Driver: nitrox -- Cavium CNN55XX crypto driver

File: cavium/cnn55xx\_ae.fw  
Version: v01

File: cavium/cnn55xx\_se.fw  
Version: v10

Licence: Redistributable. See LICENCE.cavium for details

-----  
Driver: i915 -- Intel Integrated Graphics driver

File: i915/skl\_dmc\_ver1\_23.bin  
File: i915/skl\_dmc\_ver1\_26.bin  
File: i915/skl\_dmc\_ver1\_27.bin  
Link: i915/skl\_dmc\_ver1.bin -> skl\_dmc\_ver1\_26.bin  
Version: DMC API/ABI ver 1 - release 27 for Skylake

File: i915/bxt\_dmc\_ver1\_07.bin  
Link: i915/bxt\_dmc\_ver1.bin -> bxt\_dmc\_ver1\_07.bin  
Version: DMC API/ABI ver 1 - release 07 for Broxton

File: i915/kbl\_dmc\_ver1\_01.bin  
Link: i915/kbl\_dmc\_ver1.bin -> kbl\_dmc\_ver1\_01.bin  
Version: DMC API/ABI ver 1 - release 01 for Kabylake

File: i915/kbl\_dmc\_ver1\_04.bin  
Version: DMC API/ABI ver 1 - release 04 for Kabylake

File: i915/skl\_guc\_ver1.bin  
Version: Guc API/ABI ver 1 - release 1059 for Skylake

File: i915/skl\_guc\_ver4.bin  
Version: Guc API/ABI ver 4 - release 3 for Skylake

File: i915/skl\_guc\_ver6\_1.bin  
Link: i915/skl\_guc\_ver6.bin -> skl\_guc\_ver6\_1.bin  
Version: Guc API/ABI ver 6 - release 1 for Skylake

File: i915/skl\_guc\_ver9\_33.bin  
Version: Guc API/ABI ver 9 - release 33 for Skylake

File: i915/skl\_guc\_32.0.3.bin  
Version: Guc API/ABI ver 32 - release 0 for Skylake

File: i915/skl\_guc\_33.0.0.bin  
Version: Guc API/ABI ver 33 - release 0 for Skylake

File: i915/skl\_guc\_49.0.1.bin  
Version: Guc API/ABI ver 49 - release 0 for Skylake

File: i915/skl\_guc\_62.0.0.bin  
Version: GuC API/APB ver 62.0.0 for Skylake

File: i915/skl\_guc\_69.0.3.bin  
Version: GuC API/APB ver 69.0.3 for Skylake

File: i915/skl\_guc\_70.1.1.bin  
Version: GuC API/APB ver 70.1.1 for Skylake

File: i915/skl\_huc\_ver01\_07\_1398.bin  
Version: HuC API/ABI ver 1 - release 7 for Skylake

File: i915/skl\_huc\_2.0.0.bin  
Version: HuC API/ABI ver 2 - release 0 for Skylake

File: i915/bxt\_huc\_ver01\_07\_1398.bin

Version: HuC API/APB ver 1 - release 7 for Broxton

File: i915/bxt\_huc\_ver01\_8\_2893.bin

Version: HuC API/APB ver 1 - release 8 for Broxton

File: i915/bxt\_huc\_2.0.0.bin

Version: HuC API/APB ver 2 - release 0 for Broxton

File: i915/kbl\_huc\_ver02\_00\_1810.bin

Version: HuC API/APB ver 2 - for Kabylake

File: i915/kbl\_huc\_4.0.0.bin

Version: HuC API/APB ver 4 - for Kabylake

File: i915/bxt\_guc\_ver8\_7.bin

Version: GuC API/APB ver 8 - release 7 for Broxton

File: i915/bxt\_guc\_ver9\_29.bin

Version: GuC API/APB ver 9 - release 29 for Broxton

File: i915/bxt\_guc\_32.0.3.bin

Version: GuC API/APB ver 32 - release 0 for Broxton

File: i915/bxt\_guc\_33.0.0.bin

Version: GuC API/APB ver 33 - release 0 for Broxton

File: i915/bxt\_guc\_49.0.1.bin

Version: GuC API/APB ver 49 - release 0 for Broxton

File: i915/bxt\_guc\_62.0.0.bin

Version: GuC API/APB ver 62.0.0 for Broxton

File: i915/bxt\_guc\_69.0.3.bin

Version: GuC API/APB ver 69.0.3 for Broxton

File: i915/bxt\_guc\_70.1.1.bin

Version: GuC API/APB ver 70.1.1 for Broxton

File: i915/kbl\_guc\_ver9\_14.bin

Version: GuC API/APB ver 9 release 14 for Kabylake

File: i915/cml\_guc\_33.0.0.bin

Version: GuC API/APB ver 33 release 0 for Comet Lake

File: i915/cml\_guc\_49.0.1.bin

Version: GuC API/APB ver 49 release 0 for Comet Lake

File: i915/cml\_guc\_62.0.0.bin

Version: GuC API/APB ver 62.0.0 for Comet Lake

File: i915/cml\_guc\_69.0.3.bin  
Version: GuC API/APB ver 69.0.3 for Comet Lake

File: i915/cml\_guc\_70.1.1.bin  
Version: GuC API/APB ver 70.1.1 for Comet Lake

File: i915/kbl\_guc\_ver9\_39.bin  
Version: Guc API/APB ver 9 release 39 for Kabylake

File: i915/kbl\_guc\_32.0.3.bin  
Version: Guc API/APB ver 32 release 0 for Kabylake

File: i915/kbl\_guc\_33.0.0.bin  
Version: Guc API/APB ver 33 release 0 for Kabylake

File: i915/kbl\_guc\_49.0.1.bin  
Version: Guc API/APB ver 49 release 0 for Kabylake

File: i915/kbl\_guc\_62.0.0.bin  
Version: GuC API/APB ver 62.0.0 for Kabylake

File: i915/kbl\_guc\_69.0.3.bin  
Version: GuC API/APB ver 69.0.3 for Kabylake

File: i915/kbl\_guc\_70.1.1.bin  
Version: GuC API/APB ver 70.1.1 for Kabylake

File: i915/glk\_guc\_32.0.3.bin  
Version: Guc API/APB ver 32 release 0 for Geminilake

File: i915/glk\_guc\_33.0.0.bin  
Version: Guc API/APB ver 33 release 0 for Geminilake

File: i915/glk\_guc\_49.0.1.bin  
Version: Guc API/APB ver 49 release 0 for Geminilake

File: i915/glk\_guc\_62.0.0.bin  
Version: GuC API/APB ver 62.0.0 for Geminilake

File: i915/glk\_guc\_69.0.3.bin  
Version: GuC API/APB ver 69.0.3 for Geminilake

File: i915/glk\_guc\_70.1.1.bin  
Version: GuC API/APB ver 70.1.1 for Geminilake

File: i915/glk\_huc\_ver03\_01\_2893.bin  
Version: Huc API/APB ver 3 release 1 for Geminilake

File: i915/glk\_huc\_4.0.0.bin  
Version: Huc API/APB ver 4 release 0 for Geminilake

File: i915/glk\_dmc\_ver1\_04.bin  
Version: DMC API/ABI ver 1 - release 04 for Geminilake

File: i915/cml\_huc\_4.0.0.bin  
Version: HuC API/ABI ver 4 - release 0 for Cometlake

File: i915/cnl\_dmc\_ver1\_06.bin  
Version: DMC API/ABI ver 1 - release 06 for Cannonlake

File: i915/cnl\_dmc\_ver1\_07.bin  
Version: DMC API/ABI ver 1 - release 07 for Cannonlake

File: i915/icl\_dmc\_ver1\_07.bin  
Version: DMC API/ABI ver 1 - release 07 for icelake

File: i915/icl\_dmc\_ver1\_09.bin  
Version: DMC API/ABI ver 1 - release 09 for icelake

File: i915/icl\_guc\_32.0.3.bin  
Version: GuC API/APB ver 32 release 0 for Icelake

File: i915/icl\_guc\_33.0.0.bin  
Version: GuC API/APB ver 33 release 0 for Icelake

File: i915/icl\_guc\_49.0.1.bin  
Version: GuC API/APB ver 49 release 0 for Icelake

File: i915/icl\_guc\_62.0.0.bin  
Version: GuC API/APB ver 62.0.0 for Icelake

File: i915/icl\_guc\_69.0.3.bin  
Version: GuC API/APB ver 69.0.3 for Icelake

File: i915/icl\_guc\_70.1.1.bin  
Version: GuC API/APB ver 70.1.1 for Icelake

File: i915/icl\_huc\_ver8\_4\_3238.bin  
Version: Huc API/APB ver 8 release 4 for Icelake

File: i915/tgl\_dmc\_ver2\_04.bin  
Version: DMC API/APB ver 2 release 4 for Tigerlake

File: i915/tgl\_dmc\_ver2\_06.bin  
Version: DMC API/APB ver 2 release 6 for Tigerlake

File: i915/tgl\_dmc\_ver2\_08.bin  
Version: DMC API/APB ver 2 release 8 for Tigerlake

File: i915/tgl\_dmc\_ver2\_12.bin



Version: DMC API/APB ver 2 release 12 for Tigerlake

File: i915/icl\_huc\_9.0.0.bin  
Version: Huc API/APB ver 9 release 0 for Icelake

File: i915/ehl\_guc\_33.0.4.bin  
Version: Guc API/APB ver 33 release 0 for Elkhartlake

File: i915/ehl\_guc\_49.0.1.bin  
Version: Guc API/APB ver 49 release 0 for Elkhartlake

File: i915/ehl\_guc\_62.0.0.bin  
Version: GuC API/APB ver 62.0.0 for Elkhartlake

File: i915/ehl\_guc\_69.0.3.bin  
Version: GuC API/APB ver 69.0.3 for Elkhartlake

File: i915/ehl\_guc\_70.1.1.bin  
Version: GuC API/APB ver 70.1.1 for Elkhartlake

File: i915/ehl\_huc\_9.0.0.bin  
Version: Huc API/APB ver 9 release 0 for Elkhartlake

File: i915/tgl\_guc\_35.2.0.bin  
Version: Guc API/APB ver 35 release 2 for Tigerlake

File: i915/tgl\_guc\_49.0.1.bin  
Version: Guc API/APB ver 49 release 0 for Tigerlake

File: i915/tgl\_guc\_62.0.0.bin  
Version: GuC API/APB ver 62.0.0 for Tigerlake

File: i915/tgl\_guc\_69.0.3.bin  
Version: GuC API/APB ver 69.0.3 for Tigerlake

File: i915/tgl\_guc\_70.1.1.bin  
Version: GuC API/APB ver 70.1.1 for Tigerlake

File: i915/tgl\_huc\_7.0.3.bin  
Version: Huc API/APB ver 7 release 0 for Tigerlake

File: i915/tgl\_huc\_7.0.12.bin  
Version: Huc API/APB ver 7 release 0 for Tigerlake

File: i915/tgl\_huc\_7.5.0.bin  
Version: Huc API/APB ver 7 release 5 for Tigerlake

File: i915/tgl\_huc\_7.9.3.bin  
Version: HuC API/APB ver 7.9.3 for Tigerlake

File: i915/rkl\_dmc\_ver2\_02.bin  
Version: DMC API/APB ver 2 release 2 for Rocketlake

File: i915/rkl\_dmc\_ver2\_03.bin  
Version: DMC API/APB ver 2 release 3 for Rocketlake

File: i915/dg1\_dmc\_ver2\_02.bin  
Version: DMC API/APB ver 2 release 2 for DG1

File: i915/dg1\_guc\_49.0.1.bin  
Version: GuC API/APB ver 49 release 0 for DG1

File: i915/dg1\_guc\_62.0.0.bin  
Version: GuC API/APB ver 62.0.0 for DG1

File: i915/dg1\_guc\_69.0.3.bin  
Version: GuC API/APB ver 69.0.3 for DG1

File: i915/dg1\_guc\_70.1.1.bin  
Version: GuC API/APB ver 70.1.1 for DG1

File: i915/dg1\_huc\_7.7.1.bin  
Version: Huc API/APB ver 7 release 1 for DG1

File: i915/dg1\_huc\_7.9.3.bin  
Version: HuC API/APB ver 7.9.3 for DG1

File: i915/adls\_dmc\_ver2\_01.bin  
Version: DMC API/APB ver 2 release 1 for Alderlake S

File: i915/adlp\_dmc\_ver2\_09.bin  
Version: DMC API/APB ver 2 release 9 for Alderlake P

File: i915/adlp\_dmc\_ver2\_10.bin  
Version: DMC API/APB ver 2 release 10 for Alderlake P

File: i915/adlp\_dmc\_ver2\_12.bin  
Version: DMC API/APB ver 2 release 12 for Alderlake P

File: i915/adlp\_dmc\_ver2\_14.bin  
Version: DMC API/APB ver 2 release 14 for Alderlake P

File: i915/adlp\_dmc\_ver2\_16.bin  
Version: DMC API/APB ver 2 release 16 for Alderlake P

File: i915/adlp\_guc\_62.0.3.bin  
Version: GuC API/APB ver 62.0.3 for Alderlake P

File: i915/adlp\_guc\_69.0.3.bin  
Version: GuC API/APB ver 69.0.3 for Alderlake P

File: i915/adlp\_guc\_70.1.1.bin  
Version: GuC API/APB ver 70.1.1 for Alderlake P

File: i915/dg2\_guc\_70.1.2.bin  
Version: GuC API/APB ver 70.1.2 for DG2

File: i915/dg2\_dmc\_ver2\_06.bin  
Version: DMC API/APB ver 2 release 6 for DG2

License: Redistributable. See LICENSE.i915 for details

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Driver: nouveau - NVIDIA GPU driver

File: nvidia/gk20a/fecs\_data.bin  
File: nvidia/gk20a/fecs\_inst.bin  
File: nvidia/gk20a/gpccs\_data.bin  
File: nvidia/gk20a/gpccs\_inst.bin  
File: nvidia/gk20a/sw\_bundle\_init.bin  
File: nvidia/gk20a/sw\_ctx.bin  
File: nvidia/gk20a/sw\_method\_init.bin  
File: nvidia/gk20a/sw\_nonctx.bin  
File: nvidia/gm200/acr/bl.bin  
File: nvidia/gm200/acr/ucode\_load.bin  
File: nvidia/gm200/acr/ucode\_unload.bin  
File: nvidia/gm200/gr/fecs\_bl.bin  
File: nvidia/gm200/gr/fecs\_data.bin  
File: nvidia/gm200/gr/fecs\_inst.bin  
File: nvidia/gm200/gr/fecs\_sig.bin  
File: nvidia/gm200/gr/gpccs\_bl.bin  
File: nvidia/gm200/gr/gpccs\_data.bin  
File: nvidia/gm200/gr/gpccs\_inst.bin  
File: nvidia/gm200/gr/gpccs\_sig.bin  
File: nvidia/gm200/gr/sw\_bundle\_init.bin  
File: nvidia/gm200/gr/sw\_ctx.bin  
File: nvidia/gm200/gr/sw\_method\_init.bin  
File: nvidia/gm200/gr/sw\_nonctx.bin  
Link: nvidia/gm204/acr/bl.bin -> ../../gm200/acr/bl.bin  
Link: nvidia/gm204/acr/ucode\_load.bin -> ../../gm200/acr/ucode\_load.bin  
Link: nvidia/gm204/acr/ucode\_unload.bin -> ../../gm200/acr/ucode\_unload.bin  
Link: nvidia/gm204/gr/fecs\_bl.bin -> ../../gm200/gr/fecs\_bl.bin  
File: nvidia/gm204/gr/fecs\_data.bin  
Link: nvidia/gm204/gr/fecs\_inst.bin -> ../../gm200/gr/fecs\_inst.bin  
File: nvidia/gm204/gr/fecs\_sig.bin  
Link: nvidia/gm204/gr/gpccs\_bl.bin -> ../../gm200/gr/gpccs\_bl.bin  
File: nvidia/gm204/gr/gpccs\_data.bin  
Link: nvidia/gm204/gr/gpccs\_inst.bin -> ../../gm200/gr/gpccs\_inst.bin  
File: nvidia/gm204/gr/gpccs\_sig.bin  
Link: nvidia/gm204/gr/sw\_bundle\_init.bin -> ../../gm200/gr/sw\_bundle\_init.bin

```
Link: nvidia/gm204/gr/sw_ctx.bin -> ../../gm200/gr/sw_ctx.bin
Link: nvidia/gm204/gr/sw_method_init.bin -> ../../gm200/gr/sw_method_init.bin
Link: nvidia/gm204/gr/sw_nonctx.bin -> ../../gm200/gr/sw_nonctx.bin
Link: nvidia/gm206/acr/bl.bin -> ../../gm200/acr/bl.bin
File: nvidia/gm206/acr/ucode_load.bin
File: nvidia/gm206/acr/ucode_unload.bin
Link: nvidia/gm206/gr/fecs_bl.bin -> ../../gm200/gr/fecs_bl.bin
File: nvidia/gm206/gr/fecs_data.bin
Link: nvidia/gm206/gr/fecs_inst.bin -> ../../gm200/gr/fecs_inst.bin
File: nvidia/gm206/gr/fecs_sig.bin
Link: nvidia/gm206/gr/gpccs_bl.bin -> ../../gm200/gr/gpccs_bl.bin
File: nvidia/gm206/gr/gpccs_data.bin
Link: nvidia/gm206/gr/gpccs_inst.bin -> ../../gm200/gr/gpccs_inst.bin
File: nvidia/gm206/gr/gpccs_sig.bin
Link: nvidia/gm206/gr/sw_bundle_init.bin -> ../../gm200/gr/sw_bundle_init.bin
Link: nvidia/gm206/gr/sw_ctx.bin -> ../../gm200/gr/sw_ctx.bin
Link: nvidia/gm206/gr/sw_method_init.bin -> ../../gm200/gr/sw_method_init.bin
Link: nvidia/gm206/gr/sw_nonctx.bin -> ../../gm200/gr/sw_nonctx.bin
File: nvidia/gm20b/acr/bl.bin
File: nvidia/gm20b/acr/ucode_load.bin
File: nvidia/gm20b/gr/fecs_bl.bin
File: nvidia/gm20b/gr/fecs_data.bin
File: nvidia/gm20b/gr/fecs_inst.bin
File: nvidia/gm20b/gr/fecs_sig.bin
File: nvidia/gm20b/gr/gpccs_data.bin
File: nvidia/gm20b/gr/gpccs_inst.bin
File: nvidia/gm20b/gr/sw_bundle_init.bin
File: nvidia/gm20b/gr/sw_ctx.bin
Link: nvidia/gm20b/gr/sw_method_init.bin -> ../../gm200/gr/sw_method_init.bin
File: nvidia/gm20b/gr/sw_nonctx.bin
File: nvidia/gm20b/pmu/desc.bin
File: nvidia/gm20b/pmu/image.bin
File: nvidia/gm20b/pmu/sig.bin
File: nvidia/gp100/acr/bl.bin
File: nvidia/gp100/acr/ucode_load.bin
File: nvidia/gp100/acr/ucode_unload.bin
Link: nvidia/gp100/gr/fecs_bl.bin -> ../../gm200/gr/fecs_bl.bin
File: nvidia/gp100/gr/fecs_data.bin
File: nvidia/gp100/gr/fecs_inst.bin
File: nvidia/gp100/gr/fecs_sig.bin
Link: nvidia/gp100/gr/gpccs_bl.bin -> ../../gm200/gr/gpccs_bl.bin
File: nvidia/gp100/gr/gpccs_data.bin
File: nvidia/gp100/gr/gpccs_inst.bin
File: nvidia/gp100/gr/gpccs_sig.bin
File: nvidia/gp100/gr/sw_bundle_init.bin
File: nvidia/gp100/gr/sw_ctx.bin
File: nvidia/gp100/gr/sw_method_init.bin
File: nvidia/gp100/gr/sw_nonctx.bin
File: nvidia/gp102/acr/bl.bin
File: nvidia/gp102/acr/ucode_load.bin
```

```
File: nvidia/gp102/acr/ucode_unload.bin
File: nvidia/gp102/acr/unload_bl.bin
Link: nvidia/gp102/gr/fecs_bl.bin -> ../../gm200/gr/fecs_bl.bin
File: nvidia/gp102/gr/fecs_data.bin
File: nvidia/gp102/gr/fecs_inst.bin
File: nvidia/gp102/gr/fecs_sig.bin
Link: nvidia/gp102/gr/gpccs_bl.bin -> ../../gm200/gr/gpccs_bl.bin
File: nvidia/gp102/gr/gpccs_data.bin
File: nvidia/gp102/gr/gpccs_inst.bin
File: nvidia/gp102/gr/gpccs_sig.bin
File: nvidia/gp102/gr/sw_bundle_init.bin
File: nvidia/gp102/gr/sw_ctx.bin
File: nvidia/gp102/gr/sw_method_init.bin
File: nvidia/gp102/gr/sw_nonctx.bin
File: nvidia/gp102/nvdec/scrubber.bin
File: nvidia/gp102/sec2/desc.bin
File: nvidia/gp102/sec2/image.bin
File: nvidia/gp102/sec2/sig.bin
File: nvidia/gp102/sec2/desc-1.bin
File: nvidia/gp102/sec2/image-1.bin
File: nvidia/gp102/sec2/sig-1.bin
Link: nvidia/gp104/acr/bl.bin -> ../../gp102/acr/bl.bin
Link: nvidia/gp104/acr/ucode_load.bin -> ../../gp102/acr/ucode_load.bin
Link: nvidia/gp104/acr/ucode_unload.bin -> ../../gp102/acr/ucode_unload.bin
Link: nvidia/gp104/acr/unload_bl.bin -> ../../gp102/acr/unload_bl.bin
Link: nvidia/gp104/gr/fecs_bl.bin -> ../../gp102/gr/fecs_bl.bin
File: nvidia/gp104/gr/fecs_data.bin
File: nvidia/gp104/gr/fecs_inst.bin
File: nvidia/gp104/gr/fecs_sig.bin
Link: nvidia/gp104/gr/gpccs_bl.bin -> ../../gp102/gr/gpccs_bl.bin
File: nvidia/gp104/gr/gpccs_data.bin
File: nvidia/gp104/gr/gpccs_inst.bin
File: nvidia/gp104/gr/gpccs_sig.bin
Link: nvidia/gp104/gr/sw_bundle_init.bin -> ../../gp102/gr/sw_bundle_init.bin
Link: nvidia/gp104/gr/sw_ctx.bin -> ../../gp102/gr/sw_ctx.bin
Link: nvidia/gp104/gr/sw_method_init.bin -> ../../gp102/gr/sw_method_init.bin
Link: nvidia/gp104/gr/sw_nonctx.bin -> ../../gp102/gr/sw_nonctx.bin
Link: nvidia/gp104/nvdec/scrubber.bin -> ../../gp102/nvdec/scrubber.bin
Link: nvidia/gp104/sec2/desc.bin -> ../../gp102/sec2/desc.bin
Link: nvidia/gp104/sec2/image.bin -> ../../gp102/sec2/image.bin
Link: nvidia/gp104/sec2/sig.bin -> ../../gp102/sec2/sig.bin
Link: nvidia/gp104/sec2/desc-1.bin -> ../../gp102/sec2/desc-1.bin
Link: nvidia/gp104/sec2/image-1.bin -> ../../gp102/sec2/image-1.bin
Link: nvidia/gp104/sec2/sig-1.bin -> ../../gp102/sec2/sig-1.bin
Link: nvidia/gp106/acr/bl.bin -> ../../gp102/acr/bl.bin
Link: nvidia/gp106/acr/ucode_load.bin -> ../../gp102/acr/ucode_load.bin
Link: nvidia/gp106/acr/ucode_unload.bin -> ../../gp102/acr/ucode_unload.bin
Link: nvidia/gp106/acr/unload_bl.bin -> ../../gp102/acr/unload_bl.bin
Link: nvidia/gp106/gr/fecs_bl.bin -> ../../gp102/gr/fecs_bl.bin
File: nvidia/gp106/gr/fecs_data.bin
```

```
Link: nvidia/gp106/gr/fecs_inst.bin -> ../../gp102/gr/fecs_inst.bin
File: nvidia/gp106/gr/fecs_sig.bin
Link: nvidia/gp106/gr/gpccs_bl.bin -> ../../gp102/gr/gpccs_bl.bin
File: nvidia/gp106/gr/gpccs_data.bin
Link: nvidia/gp106/gr/gpccs_inst.bin -> ../../gp102/gr/gpccs_inst.bin
File: nvidia/gp106/gr/gpccs_sig.bin
Link: nvidia/gp106/gr/sw_bundle_init.bin -> ../../gp102/gr/sw_bundle_init.bin
Link: nvidia/gp106/gr/sw_ctx.bin -> ../../gp102/gr/sw_ctx.bin
Link: nvidia/gp106/gr/sw_method_init.bin -> ../../gp102/gr/sw_method_init.bin
Link: nvidia/gp106/gr/sw_nonctx.bin -> ../../gp102/gr/sw_nonctx.bin
Link: nvidia/gp106/nvdec/scrubber.bin -> ../../gp102/nvdec/scrubber.bin
Link: nvidia/gp106/sec2/desc.bin -> ../../gp102/sec2/desc.bin
Link: nvidia/gp106/sec2/image.bin -> ../../gp102/sec2/image.bin
Link: nvidia/gp106/sec2/sig.bin -> ../../gp102/sec2/sig.bin
Link: nvidia/gp106/sec2/desc-1.bin -> ../../gp102/sec2/desc-1.bin
Link: nvidia/gp106/sec2/image-1.bin -> ../../gp102/sec2/image-1.bin
Link: nvidia/gp106/sec2/sig-1.bin -> ../../gp102/sec2/sig-1.bin
Link: nvidia/gp107/acr/bl.bin -> ../../gp102/acr/bl.bin
Link: nvidia/gp107/acr/ucode_load.bin -> ../../gp102/acr/ucode_load.bin
Link: nvidia/gp107/acr/ucode_unload.bin -> ../../gp102/acr/ucode_unload.bin
Link: nvidia/gp107/acr/unload_bl.bin -> ../../gp102/acr/unload_bl.bin
File: nvidia/gp107/gr/fecs_bl.bin
File: nvidia/gp107/gr/fecs_data.bin
File: nvidia/gp107/gr/fecs_inst.bin
File: nvidia/gp107/gr/fecs_sig.bin
File: nvidia/gp107/gr/gpccs_bl.bin
File: nvidia/gp107/gr/gpccs_data.bin
File: nvidia/gp107/gr/gpccs_inst.bin
File: nvidia/gp107/gr/gpccs_sig.bin
Link: nvidia/gp107/gr/sw_bundle_init.bin -> ../../gp102/gr/sw_bundle_init.bin
File: nvidia/gp107/gr/sw_ctx.bin
Link: nvidia/gp107/gr/sw_method_init.bin -> ../../gp102/gr/sw_method_init.bin
File: nvidia/gp107/gr/sw_nonctx.bin
Link: nvidia/gp107/nvdec/scrubber.bin -> ../../gp102/nvdec/scrubber.bin
Link: nvidia/gp107/sec2/desc.bin -> ../../gp102/sec2/desc.bin
Link: nvidia/gp107/sec2/image.bin -> ../../gp102/sec2/image.bin
Link: nvidia/gp107/sec2/sig.bin -> ../../gp102/sec2/sig.bin
Link: nvidia/gp107/sec2/desc-1.bin -> ../../gp102/sec2/desc-1.bin
Link: nvidia/gp107/sec2/image-1.bin -> ../../gp102/sec2/image-1.bin
Link: nvidia/gp107/sec2/sig-1.bin -> ../../gp102/sec2/sig-1.bin
File: nvidia/gp10b/acr/bl.bin
File: nvidia/gp10b/acr/ucode_load.bin
File: nvidia/gp10b/gr/fecs_bl.bin
File: nvidia/gp10b/gr/fecs_data.bin
File: nvidia/gp10b/gr/fecs_inst.bin
File: nvidia/gp10b/gr/fecs_sig.bin
File: nvidia/gp10b/gr/gpccs_bl.bin
File: nvidia/gp10b/gr/gpccs_data.bin
File: nvidia/gp10b/gr/gpccs_inst.bin
File: nvidia/gp10b/gr/gpccs_sig.bin
```

```
File: nvidia/gp10b/gr/sw_bundle_init.bin
File: nvidia/gp10b/gr/sw_ctx.bin
File: nvidia/gp10b/gr/sw_method_init.bin
File: nvidia/gp10b/gr/sw_nonctx.bin
File: nvidia/gp10b/pmu/desc.bin
File: nvidia/gp10b/pmu/image.bin
File: nvidia/gp10b/pmu/sig.bin
Link: nvidia/gp108/acr/bl.bin -> ../../gp102/acr/bl.bin
Link: nvidia/gp108/acr/ucode_load.bin -> ../../gp102/acr/ucode_load.bin
Link: nvidia/gp108/acr/ucode_unload.bin -> ../../gp102/acr/ucode_unload.bin
Link: nvidia/gp108/acr/unload_bl.bin -> ../../gp102/acr/unload_bl.bin
File: nvidia/gp108/gr/fecs_bl.bin
File: nvidia/gp108/gr/fecs_data.bin
File: nvidia/gp108/gr/fecs_inst.bin
File: nvidia/gp108/gr/fecs_sig.bin
File: nvidia/gp108/gr/gpccs_bl.bin
File: nvidia/gp108/gr/gpccs_data.bin
File: nvidia/gp108/gr/gpccs_inst.bin
File: nvidia/gp108/gr/gpccs_sig.bin
File: nvidia/gp108/gr/sw_bundle_init.bin
File: nvidia/gp108/gr/sw_ctx.bin
File: nvidia/gp108/gr/sw_method_init.bin
File: nvidia/gp108/gr/sw_nonctx.bin
Link: nvidia/gp108/nvdec/scrubber.bin -> ../../gp102/nvdec/scrubber.bin
Link: nvidia/gp108/sec2/desc.bin -> ../../gp102/sec2/desc-1.bin
Link: nvidia/gp108/sec2/image.bin -> ../../gp102/sec2/image-1.bin
Link: nvidia/gp108/sec2/sig.bin -> ../../gp102/sec2/sig-1.bin
File: nvidia/gv100/acr/bl.bin
File: nvidia/gv100/acr/ucode_load.bin
File: nvidia/gv100/acr/ucode_unload.bin
File: nvidia/gv100/acr/unload_bl.bin
File: nvidia/gv100/gr/fecs_bl.bin
File: nvidia/gv100/gr/fecs_data.bin
File: nvidia/gv100/gr/fecs_inst.bin
File: nvidia/gv100/gr/fecs_sig.bin
File: nvidia/gv100/gr/gpccs_bl.bin
File: nvidia/gv100/gr/gpccs_data.bin
File: nvidia/gv100/gr/gpccs_inst.bin
File: nvidia/gv100/gr/gpccs_sig.bin
File: nvidia/gv100/gr/sw_bundle_init.bin
File: nvidia/gv100/gr/sw_ctx.bin
File: nvidia/gv100/gr/sw_method_init.bin
File: nvidia/gv100/gr/sw_nonctx.bin
File: nvidia/gv100/nvdec/scrubber.bin
File: nvidia/gv100/sec2/desc.bin
File: nvidia/gv100/sec2/image.bin
File: nvidia/gv100/sec2/sig.bin
File: nvidia/tu102/acr/bl.bin
File: nvidia/tu102/acr/ucode_ahesasc.bin
File: nvidia/tu102/acr/ucode_asb.bin
```

```
File: nvidia/tu102/acr/unload_bl.bin
File: nvidia/tu102/acr/ucode_unload.bin
File: nvidia/tu102/gr/fecs_bl.bin
File: nvidia/tu102/gr/fecs_data.bin
File: nvidia/tu102/gr/fecs_inst.bin
File: nvidia/tu102/gr/fecs_sig.bin
File: nvidia/tu102/gr/gpccs_bl.bin
File: nvidia/tu102/gr/gpccs_data.bin
File: nvidia/tu102/gr/gpccs_inst.bin
File: nvidia/tu102/gr/gpccs_sig.bin
File: nvidia/tu102/gr/sw_bundle_init.bin
File: nvidia/tu102/gr/sw_ctx.bin
File: nvidia/tu102/gr/sw_method_init.bin
File: nvidia/tu102/gr/sw_nonctx.bin
File: nvidia/tu102/gr/sw_veid_bundle_init.bin
File: nvidia/tu102/nvdec/scrubber.bin
File: nvidia/tu102/sec2/desc.bin
File: nvidia/tu102/sec2/image.bin
File: nvidia/tu102/sec2/sig.bin
Link: nvidia/tu104/acr/bl.bin -> ../../tu102/acr/bl.bin
Link: nvidia/tu104/acr/ucode_ahesasc.bin -> ../../tu102/acr/ucode_ahesasc.bin
Link: nvidia/tu104/acr/ucode_asb.bin -> ../../tu102/acr/ucode_asb.bin
Link: nvidia/tu104/acr/unload_bl.bin -> ../../tu102/acr/unload_bl.bin
Link: nvidia/tu104/acr/ucode_unload.bin -> ../../tu102/acr/ucode_unload.bin
Link: nvidia/tu104/gr/fecs_bl.bin -> ../../tu102/gr/fecs_bl.bin
File: nvidia/tu104/gr/fecs_data.bin
File: nvidia/tu104/gr/fecs_inst.bin
File: nvidia/tu104/gr/fecs_sig.bin
Link: nvidia/tu104/gr/gpccs_bl.bin -> ../../tu102/gr/gpccs_bl.bin
File: nvidia/tu104/gr/gpccs_data.bin
File: nvidia/tu104/gr/gpccs_inst.bin
File: nvidia/tu104/gr/gpccs_sig.bin
File: nvidia/tu104/gr/sw_bundle_init.bin
File: nvidia/tu104/gr/sw_ctx.bin
File: nvidia/tu104/gr/sw_method_init.bin
File: nvidia/tu104/gr/sw_nonctx.bin
File: nvidia/tu104/gr/sw_veid_bundle_init.bin
Link: nvidia/tu104/nvdec/scrubber.bin -> ../../tu102/nvdec/scrubber.bin
Link: nvidia/tu104/sec2/desc.bin -> ../../tu102/sec2/desc.bin
Link: nvidia/tu104/sec2/image.bin -> ../../tu102/sec2/image.bin
Link: nvidia/tu104/sec2/sig.bin -> ../../tu102/sec2/sig.bin
Link: nvidia/tu106/acr/bl.bin -> ../../tu102/acr/bl.bin
Link: nvidia/tu106/acr/ucode_ahesasc.bin -> ../../tu102/acr/ucode_ahesasc.bin
Link: nvidia/tu106/acr/ucode_asb.bin -> ../../tu102/acr/ucode_asb.bin
Link: nvidia/tu106/acr/unload_bl.bin -> ../../tu102/acr/unload_bl.bin
Link: nvidia/tu106/acr/ucode_unload.bin -> ../../tu102/acr/ucode_unload.bin
Link: nvidia/tu106/gr/fecs_bl.bin -> ../../tu102/gr/fecs_bl.bin
File: nvidia/tu106/gr/fecs_data.bin
File: nvidia/tu106/gr/fecs_inst.bin
File: nvidia/tu106/gr/fecs_sig.bin
```



```
Link: nvidia/tu106/gr/gpccs_bl.bin -> ../../tu102/gr/gpccs_bl.bin
File: nvidia/tu106/gr/gpccs_data.bin
File: nvidia/tu106/gr/gpccs_inst.bin
File: nvidia/tu106/gr/gpccs_sig.bin
File: nvidia/tu106/gr/sw_bundle_init.bin
File: nvidia/tu106/gr/sw_ctx.bin
File: nvidia/tu106/gr/sw_method_init.bin
File: nvidia/tu106/gr/sw_nonctx.bin
File: nvidia/tu106/gr/sw_veid_bundle_init.bin
Link: nvidia/tu106/nvdec/scrubber.bin -> ../../tu102/nvdec/scrubber.bin
Link: nvidia/tu106/sec2/desc.bin -> ../../tu102/sec2/desc.bin
Link: nvidia/tu106/sec2/image.bin -> ../../tu102/sec2/image.bin
Link: nvidia/tu106/sec2/sig.bin -> ../../tu102/sec2/sig.bin
File: nvidia/tu116/acr/bl.bin
File: nvidia/tu116/acr/ucode_ahesasc.bin
File: nvidia/tu116/acr/ucode_asb.bin
File: nvidia/tu116/acr/ucode_unload.bin
File: nvidia/tu116/acr/unload_bl.bin
File: nvidia/tu116/gr/fecs_bl.bin
File: nvidia/tu116/gr/fecs_data.bin
File: nvidia/tu116/gr/fecs_inst.bin
File: nvidia/tu116/gr/fecs_sig.bin
File: nvidia/tu116/gr/gpccs_bl.bin
File: nvidia/tu116/gr/gpccs_data.bin
File: nvidia/tu116/gr/gpccs_inst.bin
File: nvidia/tu116/gr/gpccs_sig.bin
File: nvidia/tu116/gr/sw_bundle_init.bin
File: nvidia/tu116/gr/sw_ctx.bin
File: nvidia/tu116/gr/sw_method_init.bin
File: nvidia/tu116/gr/sw_nonctx.bin
File: nvidia/tu116/gr/sw_veid_bundle_init.bin
File: nvidia/tu116/nvdec/scrubber.bin
File: nvidia/tu116/sec2/desc.bin
File: nvidia/tu116/sec2/image.bin
File: nvidia/tu116/sec2/sig.bin
Link: nvidia/tu117/acr/bl.bin -> ../../tu116/acr/bl.bin
Link: nvidia/tu117/acr/ucode_ahesasc.bin -> ../../tu116/acr/ucode_ahesasc.bin
Link: nvidia/tu117/acr/ucode_asb.bin -> ../../tu116/acr/ucode_asb.bin
Link: nvidia/tu117/acr/ucode_unload.bin -> ../../tu116/acr/ucode_unload.bin
Link: nvidia/tu117/acr/unload_bl.bin -> ../../tu116/acr/unload_bl.bin
Link: nvidia/tu117/gr/fecs_bl.bin -> ../../tu116/gr/fecs_bl.bin
File: nvidia/tu117/gr/fecs_data.bin
File: nvidia/tu117/gr/fecs_inst.bin
File: nvidia/tu117/gr/fecs_sig.bin
Link: nvidia/tu117/gr/gpccs_bl.bin -> ../../tu116/gr/gpccs_bl.bin
File: nvidia/tu117/gr/gpccs_data.bin
File: nvidia/tu117/gr/gpccs_inst.bin
File: nvidia/tu117/gr/gpccs_sig.bin
File: nvidia/tu117/gr/sw_bundle_init.bin
File: nvidia/tu117/gr/sw_ctx.bin
```

```
File: nvidia/tu117/gr/sw_method_init.bin
File: nvidia/tu117/gr/sw_nonctx.bin
File: nvidia/tu117/gr/sw_veid_bundle_init.bin
Link: nvidia/tu117/nvdec/scrubber.bin -> ../../tu116/nvdec/scrubber.bin
Link: nvidia/tu117/sec2/desc.bin -> ../../tu116/sec2/desc.bin
Link: nvidia/tu117/sec2/image.bin -> ../../tu116/sec2/image.bin
Link: nvidia/tu117/sec2/sig.bin -> ../../tu116/sec2/sig.bin
File: nvidia/ga102/acr/ucode_ahesasc.bin
File: nvidia/ga102/acr/ucode_asb.bin
File: nvidia/ga102/acr/ucode_unload.bin
File: nvidia/ga102/gr/fecs_bl.bin
File: nvidia/ga102/gr/fecs_sig.bin
File: nvidia/ga102/gr/gpccs_bl.bin
File: nvidia/ga102/gr/gpccs_sig.bin
File: nvidia/ga102/gr/NET_img.bin
File: nvidia/ga102/nvdec/scrubber.bin
File: nvidia/ga102/sec2/desc.bin
File: nvidia/ga102/sec2/hs_bl_sig.bin
File: nvidia/ga102/sec2/image.bin
File: nvidia/ga102/sec2/sig.bin
Link: nvidia/ga103/acr/ucode_ahesasc.bin -> ../../ga102/acr/ucode_ahesasc.bin
Link: nvidia/ga103/acr/ucode_asb.bin -> ../../ga102/acr/ucode_asb.bin
Link: nvidia/ga103/acr/ucode_unload.bin -> ../../ga102/acr/ucode_unload.bin
File: nvidia/ga103/gr/fecs_bl.bin
File: nvidia/ga103/gr/fecs_sig.bin
File: nvidia/ga103/gr/gpccs_bl.bin
File: nvidia/ga103/gr/gpccs_sig.bin
File: nvidia/ga103/gr/NET_img.bin
Link: nvidia/ga103/nvdec/scrubber.bin -> ../../ga102/nvdec/scrubber.bin
Link: nvidia/ga103/sec2/desc.bin -> ../../ga102/sec2/desc.bin
Link: nvidia/ga103/sec2/hs_bl_sig.bin -> ../../ga102/sec2/hs_bl_sig.bin
Link: nvidia/ga103/sec2/image.bin -> ../../ga102/sec2/image.bin
Link: nvidia/ga103/sec2/sig.bin -> ../../ga102/sec2/sig.bin
Link: nvidia/ga104/acr/ucode_ahesasc.bin -> ../../ga102/acr/ucode_ahesasc.bin
Link: nvidia/ga104/acr/ucode_asb.bin -> ../../ga102/acr/ucode_asb.bin
Link: nvidia/ga104/acr/ucode_unload.bin -> ../../ga102/acr/ucode_unload.bin
File: nvidia/ga104/gr/fecs_bl.bin
File: nvidia/ga104/gr/fecs_sig.bin
File: nvidia/ga104/gr/gpccs_bl.bin
File: nvidia/ga104/gr/gpccs_sig.bin
File: nvidia/ga104/gr/NET_img.bin
Link: nvidia/ga104/nvdec/scrubber.bin -> ../../ga102/nvdec/scrubber.bin
Link: nvidia/ga104/sec2/desc.bin -> ../../ga102/sec2/desc.bin
Link: nvidia/ga104/sec2/hs_bl_sig.bin -> ../../ga102/sec2/hs_bl_sig.bin
Link: nvidia/ga104/sec2/image.bin -> ../../ga102/sec2/image.bin
Link: nvidia/ga104/sec2/sig.bin -> ../../ga102/sec2/sig.bin
Link: nvidia/ga106/acr/ucode_ahesasc.bin -> ../../ga102/acr/ucode_ahesasc.bin
Link: nvidia/ga106/acr/ucode_asb.bin -> ../../ga102/acr/ucode_asb.bin
Link: nvidia/ga106/acr/ucode_unload.bin -> ../../ga102/acr/ucode_unload.bin
File: nvidia/ga106/gr/fecs_bl.bin
```

```
File: nvidia/ga106/gr/fecs_sig.bin
File: nvidia/ga106/gr/gpccs_bl.bin
File: nvidia/ga106/gr/gpccs_sig.bin
File: nvidia/ga106/gr/NET_img.bin
Link: nvidia/ga106/nvdec/scrubber.bin -> ../../ga102/nvdec/scrubber.bin
Link: nvidia/ga106/sec2/desc.bin -> ../../ga102/sec2/desc.bin
Link: nvidia/ga106/sec2/hs_bl_sig.bin -> ../../ga102/sec2/hs_bl_sig.bin
Link: nvidia/ga106/sec2/image.bin -> ../../ga102/sec2/image.bin
Link: nvidia/ga106/sec2/sig.bin -> ../../ga102/sec2/sig.bin
Link: nvidia/ga107/acr/ucode_ahesasc.bin -> ../../ga102/acr/ucode_ahesasc.bin
Link: nvidia/ga107/acr/ucode_asb.bin -> ../../ga102/acr/ucode_asb.bin
Link: nvidia/ga107/acr/ucode_unload.bin -> ../../ga102/acr/ucode_unload.bin
File: nvidia/ga107/gr/fecs_bl.bin
File: nvidia/ga107/gr/fecs_sig.bin
File: nvidia/ga107/gr/gpccs_bl.bin
File: nvidia/ga107/gr/gpccs_sig.bin
File: nvidia/ga107/gr/NET_img.bin
Link: nvidia/ga107/nvdec/scrubber.bin -> ../../ga102/nvdec/scrubber.bin
Link: nvidia/ga107/sec2/desc.bin -> ../../ga102/sec2/desc.bin
Link: nvidia/ga107/sec2/hs_bl_sig.bin -> ../../ga102/sec2/hs_bl_sig.bin
Link: nvidia/ga107/sec2/image.bin -> ../../ga102/sec2/image.bin
Link: nvidia/ga107/sec2/sig.bin -> ../../ga102/sec2/sig.bin

File: nvidia/tu10x/typec/ccg_primary.cyacd
File: nvidia/tu10x/typec/ccg_secondary.cyacd
File: nvidia/tu10x/typec/ccg_boot.cyacd
```

Licence: Redistributable. See LICENCE.nvidia for details

-----

Driver: wilc1000 - Atmel 802.11n WLAN driver for WILC1000

```
File: atmel/wilc1000_fw.bin
File: atmel/wilc1000_ap_fw.bin
File: atmel/wilc1000_p2p_fw.bin
File: atmel/wilc1000_wifi_firmware.bin
File: atmel/wilc1000_wifi_firmware-1.bin
Version: 15.6
```

License: Redistributable. See LICENSE.atmel for details

-----

Driver: hfi1 - Intel OPA Gen 1 adapter

```
File: hfi1_dc8051.fw
Version: 1.27.0
File: hfi1_fabric.fw
Version: 0x1055
```

File: hfil\_pcie.fw

Version: 0x4755

File: hfil\_sbus.fw

Version: 0x10130001

Licence: Redistributable. See LICENSE.hfil\_firmware for details

-----  
Driver: knav\_qmss\_queue - TI Keystone 2 QMSS driver

File: ti-keystone/ks2\_qmss\_pdsp\_acc48\_k2\_le\_1\_0\_0\_9.bin

Licence: Redistributable. See LICENSE.ti-keystone for details.

-----  
Driver: mwlwifi - Marvell mac80211 driver for 80211ac cards.

File: mwlwifi/88W8864.bin

Version: 7.2.8.6

File: mwlwifi/88W8897.bin

Version: 8.2.0.10

Licence: Redistributable. See LICENSE.Marvell for details.

-----  
Driver: mtk-vpu - Mediatek VPU video processing unit driver

File: mediatek/mt8173/vpu\_d.bin

File: mediatek/mt8173/vpu\_p.bin

Link: vpu\_d.bin -> mediatek/mt8173/vpu\_d.bin

Link: vpu\_p.bin -> mediatek/mt8173/vpu\_p.bin

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Driver: mtk\_scp - Mediatek SCP System Control Processing Driver

File: mediatek/mt8183/scp.img

Version: v2.0.2745

File: mediatek/mt8192/scp.img

Version: v2.0.8537

File: mediatek/mt8195/scp.img

Version: v14454.8.0

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-----  
Driver: btmtk - MediaTek Bluetooth Driver

File: mediatek/mt7622pr2h.bin

Version: 20180621204904

File: mediatek/mt7668pr2h.bin

Version: 20180517181834

File: mediatek/mt7663pr2h.bin

Version: 7663e2ccn04-2006030247

Licence: Redistributable. See LICENCE.mediatek for details.

-----  
Driver: rk3399-dptx - ROCKCHIP rk3399 dptx firmware

File: rockchip/dptx.bin

Version: 3.1

Licence: Redistributable. See LICENCE.rockchip for details.

-----  
Driver: mt76x0 - MediaTek MT76x0 Wireless MACs

File: mediatek/mt7610u.bin

File: mediatek/mt7610e.bin

Version: 2.6

File: mediatek/mt7650e.bin  
Version: 1.0.07-b370

Licence: Redistributable. See LICENCE.mediatek for details.

-----

Driver: mt76x2e - MediaTek MT76x2 Wireless MACs

File: mt7662.bin  
Version: 1.9

File: mt7662\_rom\_patch.bin  
Version: 0.0.2\_P69

Licence: Redistributable. See LICENCE.ralink\_a\_mediatek\_company\_firmware for details

-----

Driver: mt76x2u - MediaTek MT76x2u Wireless MACs

File: mediatek/mt7662u.bin  
Version: 1.5

File: mediatek/mt7662u\_rom\_patch.bin  
Version: 0.0.2\_P48

Licence: Redistributable. See LICENCE.mediatek for details.

-----

Driver: mt7615e - MediaTek MT7615e Wireless MACs

File: mediatek/mt7615\_n9.bin  
Version: 20200814  
File: mediatek/mt7615\_cr4.bin  
Version: 20190114  
File: mediatek/mt7615\_rom\_patch.bin  
Version: 20190114

Licence: Redistributable. See LICENCE.mediatek for details.

-----

Driver: mt7622 - MediaTek MT7622 Wireless MACs

File: mediatek/mt7622\_n9.bin  
Version: 20200131  
File: mediatek/mt7622\_rom\_patch.bin  
Version: 20190114

Licence: Redistributable. See LICENCE.mediatek for details.

-----  
Driver: mt7663 - MediaTek MT7663 Wireless MACs

File: mediatek/mt7663pr2h.bin  
Version: 7663e2ccn04-2006030247  
File: mediatek/mt7663\_n9\_v3.bin  
Version: v3.1.1

File: mediatek/mt7663pr2h\_rebb.bin  
Version: 7663e2-1802-19091404338b809  
File: mediatek/mt7663\_n9\_rebb.bin  
Version: 7663mp1827-20190914043434

Licence: Redistributable. See LICENCE.mediatek for details.

-----  
Driver: mt7915e - MediaTek Wireless MACs for MT7915/MT7916/MT7986

File: mediatek/mt7915\_wm.bin  
Version: 20211222184052  
File: mediatek/mt7915\_wa.bin  
Version: 20211222184111  
File: mediatek/mt7915\_rom\_patch.bin  
Version: 20211222184017a  
File: mediatek/mt7915\_eeprom.bin  
Version: 20200821  
File: mediatek/mt7915\_eeprom\_dbdc.bin  
Version: 20200821

File: mediatek/mt7916\_wm.bin  
Version: 20211230135720  
File: mediatek/mt7916\_wa.bin  
Version: 20211230135808  
File: mediatek/mt7916\_rom\_patch.bin  
Version: 20211230135620a  
File: mediatek/mt7916\_eeprom.bin  
Version: 20211130

File: mediatek/mt7986\_wm.bin  
Version: 20220113162641  
File: mediatek/mt7986\_wm\_mt7975.bin  
Version: 20220113162756  
File: mediatek/mt7986\_wa.bin  
Version: 20220113163034  
File: mediatek/mt7986\_rom\_patch.bin

Version: 20220113162543a  
File: mediatek/mt7986\_rom\_patch\_mt7975.bin  
Version: 20220113162701a  
File: mediatek/mt7986\_eeprom\_mt7976.bin  
Version: 202111105  
File: mediatek/mt7986\_eeprom\_mt7976\_dbdc.bin  
Version: 20220223  
File: mediatek/mt7986\_eeprom\_mt7976\_dual.bin  
Version: 20211115  
File: mediatek/mt7986\_eeprom\_mt7975\_dual.bin  
Version: 20220208

Licence: Redistributable. See LICENCE.mediatek for details.

-----  
Driver: mt7921 - MediaTek MT7921 Wireless MACs

File: mediatek/WIFI\_MT7961\_patch\_mcu\_1\_2\_hdr.bin  
Version: 20220311230842a  
File: mediatek/WIFI\_RAM\_CODE\_MT7961\_1.bin  
Version: 20220311230931

Licence: Redistributable. See LICENCE.mediatek for details.

-----  
Driver: mt7921 - MediaTek MT7921 bluetooth chipset

File: mediatek/BT\_RAM\_CODE\_MT7961\_1\_2\_hdr.bin  
Version: 20220311231139

Licence: Redistributable. See LICENCE.mediatek for details.

-----  
Driver: mt7922 - MediaTek MT7922 Wireless MACs

File: mediatek/WIFI\_MT7922\_patch\_mcu\_1\_1\_hdr.bin  
Version: 20220322163923a  
File: mediatek/WIFI\_RAM\_CODE\_MT7922\_1.bin  
Version: 20220322164011

Licence: Redistributable. See LICENCE.mediatek for details.

-----  
Driver: mt7922 - MediaTek MT7922 bluetooth chipset

File: mediatek/BT\_RAM\_CODE\_MT7922\_1\_1\_hdr.bin



Version: 20220322164155

Licence: Redistributable. See LICENCE.mediatek for details.

-----  
Driver: nfp - Netronome Flow Processor

Link: netronome/nic\_AMDA0081-0001\_1x40.nffw -> nic/nic\_AMDA0081-0001\_1x40.nffw  
Link: netronome/nic\_AMDA0097-0001\_2x40.nffw -> nic/nic\_AMDA0097-0001\_2x40.nffw  
Link: netronome/nic\_AMDA0099-0001\_2x10.nffw -> nic/nic\_AMDA0099-0001\_2x10.nffw  
Link: netronome/nic\_AMDA0081-0001\_4x10.nffw -> nic/nic\_AMDA0081-0001\_4x10.nffw  
Link: netronome/nic\_AMDA0097-0001\_4x10\_1x40.nffw ->  
nic/nic\_AMDA0097-0001\_4x10\_1x40.nffw  
Link: netronome/nic\_AMDA0099-0001\_1x10\_1x25.nffw ->  
nic/nic\_AMDA0099-0001\_1x10\_1x25.nffw  
Link: netronome/nic\_AMDA0099-0001\_2x25.nffw -> nic/nic\_AMDA0099-0001\_2x25.nffw  
Link: netronome/nic\_AMDA0096-0001\_2x10.nffw -> nic/nic\_AMDA0096-0001\_2x10.nffw  
Link: netronome/nic\_AMDA0097-0001\_8x10.nffw -> nic/nic\_AMDA0097-0001\_8x10.nffw  
Link: netronome/nic\_AMDA0058-0011\_2x40.nffw -> nic/nic\_AMDA0058-0011\_2x40.nffw  
Link: netronome/nic\_AMDA0058-0012\_2x40.nffw -> nic/nic\_AMDA0058-0012\_2x40.nffw  
Link: netronome/nic\_AMDA0078-0011\_1x100.nffw -> nic/nic\_AMDA0078-0011\_1x100.nffw  
File: netronome/nic/nic\_AMDA0081-0001\_1x40.nffw  
File: netronome/nic/nic\_AMDA0097-0001\_2x40.nffw  
File: netronome/nic/nic\_AMDA0099-0001\_2x10.nffw  
File: netronome/nic/nic\_AMDA0081-0001\_4x10.nffw  
File: netronome/nic/nic\_AMDA0097-0001\_4x10\_1x40.nffw  
File: netronome/nic/nic\_AMDA0099-0001\_1x10\_1x25.nffw  
File: netronome/nic/nic\_AMDA0099-0001\_2x25.nffw  
File: netronome/nic/nic\_AMDA0096-0001\_2x10.nffw  
File: netronome/nic/nic\_AMDA0097-0001\_8x10.nffw  
File: netronome/nic/nic\_AMDA0058-0011\_2x40.nffw  
File: netronome/nic/nic\_AMDA0058-0012\_2x40.nffw  
File: netronome/nic/nic\_AMDA0078-0011\_1x100.nffw  
File: netronome/nic-sriov/nic\_AMDA0081-0001\_1x40.nffw  
File: netronome/nic-sriov/nic\_AMDA0097-0001\_2x40.nffw  
File: netronome/nic-sriov/nic\_AMDA0099-0001\_2x10.nffw  
File: netronome/nic-sriov/nic\_AMDA0081-0001\_4x10.nffw  
File: netronome/nic-sriov/nic\_AMDA0097-0001\_4x10\_1x40.nffw  
File: netronome/nic-sriov/nic\_AMDA0099-0001\_1x10\_1x25.nffw  
File: netronome/nic-sriov/nic\_AMDA0099-0001\_2x25.nffw  
File: netronome/nic-sriov/nic\_AMDA0096-0001\_2x10.nffw  
File: netronome/nic-sriov/nic\_AMDA0097-0001\_8x10.nffw  
File: netronome/nic-sriov/nic\_AMDA0058-0011\_2x40.nffw  
File: netronome/nic-sriov/nic\_AMDA0058-0012\_2x40.nffw  
File: netronome/nic-sriov/nic\_AMDA0078-0011\_1x100.nffw

Version: v2.1.16.1

File: netronome/flower/nic\_AMDA0099.nffw  
File: netronome/flower/nic\_AMDA0096.nffw

```
File: netronome/flower/nic_AMDA0097.nffw
File: netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0081.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0081-0001_1x40.nffw -> nic_AMDA0081.nffw
Link: netronome/flower/nic_AMDA0097-0001_2x40.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_2x10.nffw -> nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0081-0001_4x10.nffw -> nic_AMDA0081.nffw
Link: netronome/flower/nic_AMDA0097-0001_4x10_1x40.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_2x25.nffw -> nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0096-0001_2x10.nffw -> nic_AMDA0096.nffw
Link: netronome/flower/nic_AMDA0097-0001_8x10.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_1x10_1x25.nffw -> nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0058-0011_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_8x10.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_8x10.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_8x10.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_8x10.nffw -> nic_AMDA0058.nffw
```

Version: AOTC-2.14.A.6

```
File: netronome/bpf/nic_AMDA0081-0001_1x40.nffw
File: netronome/bpf/nic_AMDA0097-0001_2x40.nffw
File: netronome/bpf/nic_AMDA0099-0001_2x10.nffw
File: netronome/bpf/nic_AMDA0081-0001_4x10.nffw
File: netronome/bpf/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/bpf/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/bpf/nic_AMDA0099-0001_2x25.nffw
File: netronome/bpf/nic_AMDA0096-0001_2x10.nffw
File: netronome/bpf/nic_AMDA0097-0001_8x10.nffw
File: netronome/bpf/nic_AMDA0058-0011_2x40.nffw
File: netronome/bpf/nic_AMDA0058-0012_2x40.nffw
File: netronome/bpf/nic_AMDA0078-0011_1x100.nffw
```

Version: v2.0.6.124

Licence: Redistributable. See LICENCE.Netronome for details

-----

Driver: wil6210 - Qualcomm Atheros support for llad family of chips

File: wil6210.fw  
File: wil6210.brd  
Version: 5.2.0.18

Licence: Redistributable. See LICENSE.QualcommAtheros\_ath10k for details

-----

Driver: venus - Qualcomm Venus video codec accelerator

File: qcom/venus-1.8/venus.mdt  
File: qcom/venus-1.8/venus.b00  
File: qcom/venus-1.8/venus.b01  
File: qcom/venus-1.8/venus.b02  
File: qcom/venus-1.8/venus.b03  
File: qcom/venus-1.8/venus.b04

Version: 1.8-00109

File: qcom/venus-4.2/venus.mdt  
File: qcom/venus-4.2/venus.b00  
File: qcom/venus-4.2/venus.b01  
File: qcom/venus-4.2/venus.b02  
File: qcom/venus-4.2/venus.b03  
File: qcom/venus-4.2/venus.b04

Version: 4.2

File: qcom/venus-5.2/venus.mdt  
File: qcom/venus-5.2/venus.b00  
File: qcom/venus-5.2/venus.b01  
File: qcom/venus-5.2/venus.b02  
File: qcom/venus-5.2/venus.b03  
File: qcom/venus-5.2/venus.b04  
File: qcom/venus-5.2/venus.mbn

Version: 5.2-00023

File: qcom/venus-5.4/venus.mdt  
File: qcom/venus-5.4/venus.b00  
File: qcom/venus-5.4/venus.b01  
File: qcom/venus-5.4/venus.b02  
File: qcom/venus-5.4/venus.b03  
File: qcom/venus-5.4/venus.b04  
File: qcom/venus-5.4/venus.mbn

Version: 5.4-00038

File: qcom/vpu-1.0/venus.mdt  
File: qcom/vpu-1.0/venus.b00  
File: qcom/vpu-1.0/venus.b01  
File: qcom/vpu-1.0/venus.b02  
File: qcom/vpu-1.0/venus.b03  
File: qcom/vpu-1.0/venus.b04  
File: qcom/vpu-1.0/venus.b05  
File: qcom/vpu-1.0/venus.b06  
File: qcom/vpu-1.0/venus.b07  
File: qcom/vpu-1.0/venus.b08  
File: qcom/vpu-1.0/venus.b09  
File: qcom/vpu-1.0/venus.b10  
File: qcom/vpu-1.0/venus.b19  
File: qcom/vpu-1.0/venus.mbn

Version: VIDEO.VPU.1.0-00087-PROD-1

File: qcom/vpu-2.0/venus.mdt  
File: qcom/vpu-2.0/venus.b00  
File: qcom/vpu-2.0/venus.b01  
File: qcom/vpu-2.0/venus.b02  
File: qcom/vpu-2.0/venus.b03  
File: qcom/vpu-2.0/venus.b04  
File: qcom/vpu-2.0/venus.b05  
File: qcom/vpu-2.0/venus.b06  
File: qcom/vpu-2.0/venus.b07  
File: qcom/vpu-2.0/venus.b08  
File: qcom/vpu-2.0/venus.b09  
File: qcom/vpu-2.0/venus.b10  
File: qcom/vpu-2.0/venus.b19  
File: qcom/vpu-2.0/venus.mbn

Version: VIDEO.VPU.2.0-00038-PROD-1

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Binary files supplied originally from  
<https://developer.qualcomm.com/hardware/dragonboard-410c/tools>

-----  
Driver: imx-sdma - support for i.MX SDMA driver

File: imx/sdma/sdma-imx6q.bin  
Version: 3.3  
File: imx/sdma/sdma-imx7d.bin  
Version: 4.2

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-----  
Driver: adreno - Qualcomm Adreno GPU firmware

File: qcom/a300\_pfp.fw  
Link: a300\_pfp.fw -> qcom/a300\_pfp.fw  
File: qcom/a300\_pm4.fw  
Link: a300\_pm4.fw -> qcom/a300\_pm4.fw  
File: qcom/a330\_pfp.fw  
File: qcom/a330\_pm4.fw  
File: qcom/a420\_pfp.fw  
File: qcom/a420\_pm4.fw  
File: qcom/a530\_pfp.fw  
File: qcom/a530\_pm4.fw  
File: qcom/a530v3\_gpmu.fw2  
File: qcom/a530\_zap.b00  
File: qcom/a530\_zap.b01  
File: qcom/a530\_zap.b02  
File: qcom/a530\_zap.mdt  
File: qcom/a630\_gmu.bin  
File: qcom/a630\_sqe.fw  
File: qcom/sdm845/a630\_zap.mbn  
File: qcom/a650\_gmu.bin  
File: qcom/a650\_sqe.fw  
File: qcom/sm8250/a650\_zap.mbn  
File: qcom/a660\_gmu.bin  
File: qcom/a660\_sqe.fw  
File: qcom/leia\_pfp\_470.fw  
File: qcom/leia\_pm4\_470.fw

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-----  
Driver: qcom\_q6v5\_pas - Qualcomm remoteproc firmware

File: qcom/apq8096/adsp.mbn  
File: qcom/apq8096/adspr.jsn  
File: qcom/apq8096/adspua.jsn  
File: qcom/apq8096/mba.mbn  
File: qcom/apq8096/modem.mbn  
File: qcom/apq8096/modemr.jsn  
File: qcom/sdm845/adsp.mbn  
File: qcom/sdm845/adspr.jsn  
File: qcom/sdm845/adspua.jsn  
File: qcom/sdm845/cdsp.mbn

File: qcom/sdm845/cdspr.jsn  
File: qcom/sm8250/adsp.mbn  
File: qcom/sm8250/adspr.jsn  
File: qcom/sm8250/adspua.jsn  
File: qcom/sm8250/cdsp.mbn  
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[http://releases.linaro.org/96boards/rb5/qualcomm/firmware/RB5\\_firmware\\_20210331-v4.zip](http://releases.linaro.org/96boards/rb5/qualcomm/firmware/RB5_firmware_20210331-v4.zip)

adsp.mbn has been converted from 20-adsp\_split/firmware/adsp.\* using  
<https://github.com/andersson/pil-squasher>

cdsp.mbn has been converted from 21-cdsp\_split/firmware/cdsp.\* using  
<https://github.com/andersson/pil-squasher>

-----  
Driver: qcom\_q6v5\_mss - Qualcomm modem subsystem firmware

File: qcom/sdm845/mba.mbn  
File: qcom/sdm845/modem.mbn  
File: qcom/sdm845/modemuw.jsn

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Binary files supplied originally from  
[http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3\\_firmware\\_20190529180356-v4.zip](http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3_firmware_20190529180356-v4.zip)

modem.mbn has been converted from 28-modem/modem.\* using  
<https://github.com/andersson/pil-squasher>

-----  
Driver: mlxsw\_spectrum - Mellanox Spectrum switch

File: mellanox/mlxsw\_spectrum-13.1420.122.mfa2  
File: mellanox/mlxsw\_spectrum-13.1530.152.mfa2  
File: mellanox/mlxsw\_spectrum-13.1620.192.mfa2  
File: mellanox/mlxsw\_spectrum-13.1702.6.mfa2  
File: mellanox/mlxsw\_spectrum-13.1703.4.mfa2  
File: mellanox/mlxsw\_spectrum-13.1910.622.mfa2  
File: mellanox/mlxsw\_spectrum-13.2000.1122.mfa2  
File: mellanox/mlxsw\_spectrum-13.2000.1886.mfa2

File: mellanox/mlxsw\_spectrum-13.2000.2308.mfa2  
File: mellanox/mlxsw\_spectrum2-29.2000.2308.mfa2  
File: mellanox/mlxsw\_spectrum-13.2000.2714.mfa2  
File: mellanox/mlxsw\_spectrum2-29.2000.2714.mfa2  
File: mellanox/mlxsw\_spectrum-13.2007.1168.mfa2  
File: mellanox/mlxsw\_spectrum2-29.2007.1168.mfa2  
File: mellanox/mlxsw\_spectrum3-30.2007.1168.mfa2  
File: mellanox/mlxsw\_spectrum-13.2008.1036.mfa2  
File: mellanox/mlxsw\_spectrum2-29.2008.1036.mfa2  
File: mellanox/mlxsw\_spectrum3-30.2008.1036.mfa2  
File: mellanox/mlxsw\_spectrum-13.2008.1310.mfa2  
File: mellanox/mlxsw\_spectrum2-29.2008.1310.mfa2  
File: mellanox/mlxsw\_spectrum3-30.2008.1310.mfa2  
File: mellanox/mlxsw\_spectrum-13.2008.1312.mfa2  
File: mellanox/mlxsw\_spectrum2-29.2008.1312.mfa2  
File: mellanox/mlxsw\_spectrum3-30.2008.1312.mfa2  
File: mellanox/mlxsw\_spectrum-13.2008.2018.mfa2  
File: mellanox/mlxsw\_spectrum2-29.2008.2018.mfa2  
File: mellanox/mlxsw\_spectrum3-30.2008.2018.mfa2  
File: mellanox/mlxsw\_spectrum-13.2008.2304.mfa2  
File: mellanox/mlxsw\_spectrum2-29.2008.2304.mfa2  
File: mellanox/mlxsw\_spectrum3-30.2008.2304.mfa2  
File: mellanox/mlxsw\_spectrum-13.2008.2406.mfa2  
File: mellanox/mlxsw\_spectrum2-29.2008.2406.mfa2  
File: mellanox/mlxsw\_spectrum3-30.2008.2406.mfa2  
File: mellanox/mlxsw\_spectrum-13.2008.2438.mfa2  
File: mellanox/mlxsw\_spectrum2-29.2008.2438.mfa2  
File: mellanox/mlxsw\_spectrum3-30.2008.2438.mfa2  
File: mellanox/mlxsw\_spectrum-13.2008.2946.mfa2  
File: mellanox/mlxsw\_spectrum2-29.2008.2946.mfa2  
File: mellanox/mlxsw\_spectrum3-30.2008.2946.mfa2  
File: mellanox/mlxsw\_spectrum-13.2008.3326.mfa2  
File: mellanox/mlxsw\_spectrum2-29.2008.3326.mfa2  
File: mellanox/mlxsw\_spectrum3-30.2008.3326.mfa2  
File: mellanox/mlxsw\_spectrum-13.2010.1006.mfa2  
File: mellanox/mlxsw\_spectrum2-29.2010.1006.mfa2  
File: mellanox/mlxsw\_spectrum3-30.2010.1006.mfa2  
File: mellanox/lc\_ini\_bundle\_2010\_1006.bin  
File: mellanox/mlxsw\_spectrum-13.2010.1232.mfa2  
File: mellanox/mlxsw\_spectrum2-29.2010.1232.mfa2  
File: mellanox/mlxsw\_spectrum3-30.2010.1232.mfa2  
File: mellanox/mlxsw\_spectrum-13.2010.1406.mfa2  
File: mellanox/mlxsw\_spectrum2-29.2010.1406.mfa2  
File: mellanox/mlxsw\_spectrum3-30.2010.1406.mfa2  
File: mellanox/mlxsw\_spectrum-13.2010.1502.mfa2  
File: mellanox/mlxsw\_spectrum2-29.2010.1502.mfa2  
File: mellanox/mlxsw\_spectrum3-30.2010.1502.mfa2  
File: mellanox/lc\_ini\_bundle\_2010\_1502.bin

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-----  
Driver: cdns-mhdp - Cadence MHDP8546 DP bridge

File: cadence/mhdp8546.bin

Version: 2.1.0

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-----  
Driver: fsl-mc bus - NXP Management Complex Bus Driver

File: dpaa2/mc/mc\_10.10.0\_ls1088a.itb

File: dpaa2/mc/mc\_10.10.0\_ls2088a.itb

File: dpaa2/mc/mc\_10.10.0\_lx2160a.itb

File: dpaa2/mc/mc\_10.14.3\_ls1088a.itb

File: dpaa2/mc/mc\_10.14.3\_ls2088a.itb

File: dpaa2/mc/mc\_10.14.3\_lx2160a.itb

File: dpaa2/mc/mc\_10.16.2\_ls1088a.itb



File: dpaa2/mc/mc\_10.16.2\_ls2088a.itb  
File: dpaa2/mc/mc\_10.16.2\_lx2160a.itb  
File: dpaa2/mc/mc\_10.18.0\_ls1088a.itb  
File: dpaa2/mc/mc\_10.18.0\_ls2088a.itb  
File: dpaa2/mc/mc\_10.18.0\_lx2160a.itb  
File: dpaa2/mc/mc\_10.28.1\_ls1088a.itb  
File: dpaa2/mc/mc\_10.28.1\_ls2088a.itb  
File: dpaa2/mc/mc\_10.28.1\_lx2160a.itb

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Driver: mscv-phy - Microchip PHY drivers

File: microchip/mscc\_vsc8574\_revb\_int8051\_29e8.bin  
File: microchip/mscc\_vsc8584\_revb\_int8051\_fb48.bin

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-----

Driver: meson-vdec - Amlogic video decoder

File: meson/vdec/g12a\_h264.bin  
File: meson/vdec/g12a\_hevc\_mmu.bin  
File: meson/vdec/g12a\_vp9.bin  
File: meson/vdec/gxbb\_h264.bin  
File: meson/vdec/gxl\_h263.bin  
File: meson/vdec/gxl\_h264.bin  
File: meson/vdec/gxl\_hevc.bin  
File: meson/vdec/gxl\_hevc\_mmu.bin  
File: meson/vdec/gxl\_mjpeg.bin  
File: meson/vdec/gxl\_mpeg12.bin  
File: meson/vdec/gxl\_mpeg4\_5.bin  
File: meson/vdec/gxl\_vp9.bin  
File: meson/vdec/gxm\_h264.bin  
File: meson/vdec/sml\_hevc\_mmu.bin  
File: meson/vdec/sml\_vp9\_mmu.bin

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-----

Driver: ice - Intel(R) Ethernet Connection E800 Series

File: intel/ice/ddp/ice-1.3.28.0.pkg  
Link: intel/ice/ddp/ice.pkg -> ice-1.3.28.0.pkg

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File: intel/ice/ddp-comms/ice\_comms-1.3.31.0.pkg  
File: intel/ice/ddp-wireless\_edge/ice\_wireless\_edge-1.3.7.0.pkg

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-----  
Driver: inside-secure -- Inside Secure EIP197 crypto driver

File: inside-secure/eip197\_minifw/ipue.bin  
File: inside-secure/eip197\_minifw/ifpp.bin

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-----  
Driver: presteria - Marvell driver for Presteria family ASIC devices

File: mrvl/presteria/mvsw\_prestera\_fw-v2.0.img  
File: mrvl/presteria/mvsw\_prestera\_fw-v3.0.img  
File: mrvl/presteria/mvsw\_prestera\_fw-v4.0.img

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-----  
Driver: lt961luxc - Lontium DSI to HDMI bridge

File: lt961luxc\_fw.bin

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-----  
Driver: wfx - Silicon Labs Wi-Fi Transceiver

File: wfx/wfm\_wf200\_C0.sec  
Version: 3.14

File: wfx/brd4001a.pds not listed in WHENCE  
File: wfx/brd8022a.pds not listed in WHENCE  
File: wfx/brd8023a.pds not listed in WHENCE

Licence: Redistributable. See wfx/LICENCE.wf200 for details.

The firmware itself originates from <https://github.com/SiliconLabs/wfx-firmware>

The \*.pds files come from <https://github.com/SiliconLabs/wfx-pds>

They have been processed with the tool "pds\_compress" available on  
<https://github.com/SiliconLabs/wfx-linux-tools>

-----  
Driver: wave5 - Chips&Media, Inc. video codec driver

File: cnm/wave521c\_j721s2\_codec\_fw.bin

Licence: Redistributable. See LICENCE.cnm for details.

-----  
Driver: rvu\_cptpf - Marvell CPT driver

File: mrvl/cpt01/ae.out

File: mrvl/cpt01/se.out

File: mrvl/cpt01/ie.out

File: mrvl/cpt02/ae.out

File: mrvl/cpt02/se.out

File: mrvl/cpt02/ie.out

File: mrvl/cpt03/ae.out

File: mrvl/cpt03/se.out

File: mrvl/cpt03/ie.out

File: mrvl/cpt04/ae.out

File: mrvl/cpt04/se.out

File: mrvl/cpt04/ie.out

Version: v1.21

Licence: Redistributable. See LICENCE.Marvell for details.

-----  
Driver: amphion - Amphion VPU (Video Processing Unit) Codec IP driver

File: amphion/vpu/vpu\_fw\_imx8\_dec.bin

Version: 1.7.4

File: amphion/vpu/vpu\_fw\_imx8\_enc.bin

Version: 1.3.1

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```

```
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lzo-2.10: src/lzo_init.c, 5-25
=====
```

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Markus F.X.J. Oberhumer  
<markus@oberhumer.com>  
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m4-1.4.18: examples/COPYING
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```

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```
=====
main-app-1.0: MIT
openssh-keys-1.0: MIT
rs-sysctl-1.0: MIT
setup-storage-systemd-tmpfiles-1.0: MIT
=====
```

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```
=====
mesa-20.0.2: docs/license.html
=====
```

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<html lang="en">
<head>
  <meta http-equiv="content-type" content="text/html; charset=utf-8">
  <title>License and Copyright</title>
  <link rel="stylesheet" type="text/css" href="mesa.css">
</head>
<body>

<div class="header">
  The Mesa 3D Graphics Library
</div>

<iframe src="contents.html"></iframe>
<div class="content">

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| Device drivers       | src/ mesa/ drivers/ *                          | MIT, generally              |
| Gallium code         | src/ gallium/                                  | MIT                         |
| Ext headers          | include/ GL/ glxext.h<br>include/ GL/ glxext.h | Khronos                     |
| GLX client code      | src/ glx/                                      | SGI Free Software License B |
| C11 thread emulation | include/ c11/ threads*.h                       | Boost (permissive)          |

</pre>

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</p>

</div>

```
</body>
</html>
```

```
=====
mmc-utils-0.1+git: mmc.c, 1-20
=====
```

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 *
 * (This code is based on btrfs-progs/btrfs.c.)
 */
```

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```
=====
ncurses-6.2: ncurses/base/version.c, 1-27
=====
```

```
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```

```

=====
ndctl-v67: COPYING
=====

```

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```
=====
netbase-6.1: debian/copyright
=====
```

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It is currently maintained by Marco d'Itri <md@linux.it>.

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```
=====
nettle-3.5.1: serpent-decrypt.c, 14-36
nettle-3.5.1: serpent-set-key.c, 14-36
=====
```

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```
=====
nginx-1.16.1: LICENSE
=====
```

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```
=====  
noto-sans-cjk-1.0: LICENSE_OFL.txt  
=====
```

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-----  
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```

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```
=====
nspr-4.25: configure.in, 3-6
=====
```

```

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```

```
=====
nspr-4.25: Makefile.in, 4-38
=====
```

```

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```

```

MOD_DEPTH    = .
topsrcdir    = @top_srcdir@
srcdir       = @srcdir@
VPATH        = @srcdir@

```

```
include $(MOD_DEPTH)/config/autoconf.mk
```

```
DIRS = config pr lib
```

```

ifdef MOZILLA_CLIENT
# Make nsinstall use absolute symlinks by default for Mozilla OSX builds
# http://bugzilla.mozilla.org/show\_bug.cgi?id=193164
ifeq ($(OS_ARCH), Darwin)
ifndef NSDISTMODE
NSDISTMODE=absolute_symlink
export NSDISTMODE
endif
endif
endif

```

```
DIST_GARBAGE = config.cache config.log config.status
```

```
all:: config.status export
```

```
include $(topsrcdir)/config/rules.mk
```

```

config.status:: configure
ifeq ($(OS_ARCH), WINNT)
    sh $(srcdir)/configure --no-create --no-recursion
else

```



```
=====
nss-3.51.1: nss/COPYING
=====
```

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openssl-1.1.1q: LICENSE
=====
```

```
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```
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```

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

That's all there is to it!

```
=====
parted-3.3: COPYING
=====
```

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```
=====
perl-5.30.1: Copying
=====
```

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```
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```

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```
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```

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```
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at assemblers) written by James Hacker.
```

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

That's all there is to it!

```
=====
perl-5.30.1: Artistic
=====
```

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```
=====
pixman-0.38.4: COPYING
=====
```

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```

```

=====
pixman-0.38.4: pixman/pixman-matrix.c, 1-21
=====

```

```

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```

```

=====
pixman-0.38.4: pixman/pixman-arm-neon-asm.h, 1-24
=====

```

```

/*
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```



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```

```

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polkit-0.116: COPYING
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```
=====
polkit-0.116: src/polkit/polkit.h, 1-20
=====
```

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popt-1.16: COPYING
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=====  
 pugixml-1.10: readme.txt, 29-52  
 =====

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=====  
 python3-3.8.13: LICENSE  
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#### A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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```
=====
shadow-4.8.1: src/passwd.c, 2-30
=====
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sqlite3-3.31.1: sqlite3.h, 1-11
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=====  
usbutils-012: lsusb.c, 1-1  
=====

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usbutils-012: lsusb.py.in, 2-2  
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```
=====
wayland-1.18.0: src/wayland-server.c, 1-24
=====
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=====
```

```
wpa_supPLICANT and hostapd
-----
```

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=====
wpa-supPLICANT-2.9: README, 1-56
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Source code files were moved around in v0.6.x releases and compared to earlier releases, the programs are now built by first going to a subdirectory (wpa\_supPLICANT or hostapd) and creating build configuration (.config) and running 'make' there (for Linux/BSD/cygwin builds).

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```
=====
wpa-supPLICant-2.9: wpa_supPLICant/wpa_supPLICant.c, 1-12
=====
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 * This file implements functions for registering and unregistering
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 */
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=====
xz-5.2.4: lib/getopt.c, 1-23
=====

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with this program; if not, write to the Free Software Foundation,
Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA. */

#ifdef _LIBC
```

```
=====  
zlib-1.2.11: zlib.h, 6-23  
=====
```

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Freetype 2 - Bitmap Distribution Format (BDF) support

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The code in this library is an extension of Bala Vatti's clipping algorithm:  
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Communications of the ACM, Vol 35, Issue 7 (July 1992) pp 56-63.  
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See also:  
"Polygon Offsetting by Computing Winding Numbers"  
Paper no. DETC2005-85513 pp. 565-575  
ASME 2005 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference (IDETC/CIE2005) September 24-28, 2005 , Long Beach, California, USA  
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dom-distiller-js

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- libpostproc
- optional x86 optimization in the files
- `libavcodec/x86/flac\_dsp\_gpl.asm`
- `libavcodec/x86/idct\_mmx.c`
- `libavfilter/x86/vf\_removegrain.asm`
- the following building and testing tools
- `compat/solaris/make\_sunver.pl`
- `doc/t2h.pm`
- `doc/texi2pod.pl`
- `libswresample/swresample-test.c`
- `tests/checkasm/\*`
- `tests/tiny\_ssim.c`
- the following filters in libavfilter:
- `vf\_blackframe.c`
- `vf\_boxblur.c`
- `vf\_colormatrix.c`
- `vf\_cover\_rect.c`
- `vf\_cropdetect.c`
- `vf\_delogo.c`
- `vf\_eq.c`
- `vf\_find\_rect.c`
- `vf\_fspp.c`
- `vf\_geq.c`
- `vf\_histeq.c`
- `vf\_hqdn3d.c`
- `vf\_interlace.c`
- `vf\_kerndeint.c`
- `vf\_mcdeint.c`
- `vf\_mpdecimate.c`
- `vf\_owdenoise.c`
- `vf\_perspective.c`
- `vf\_phase.c`
- `vf\_pp.c`
- `vf\_pp7.c`
- `vf\_pullup.c`

```

- `vf_repeatfields.c`
- `vf_sab.c`
- `vf_smartblur.c`
- `vf_spp.c`
- `vf_stereo3d.c`
- `vf_super2xsai.c`
- `vf_tinterlace.c`
- `vf_uspp.c`
- `vsrc_mptestsrc.c`

```

Should you, for whatever reason, prefer to use version 3 of the (L)GPL, then the configure parameter `--enable-version3` will activate this licensing option for you. Read the file `COPYING.LGPLv3` or, if you have enabled GPL parts, `COPYING.GPLv3` to learn the exact legal terms that apply in this case.

There are a handful of files under other licensing terms, namely:

\* The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint\_template.c` and `libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.

\* `tests/reference.pnm` is under the expat license.

## External libraries

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

### Compatible libraries

The following libraries are under GPL:

```

- frei0r
- libcdio
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

```

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

The OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.

### Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these libraries, even in circumstances that their license may be incompatible, pass `--enable-nonfree` to configure. But note that if you enable any of these libraries the resulting binary will be under a complex license mix that is more restrictive than the LGPL and that may result in additional obligations. It is possible that these restrictions cause the resulting binary to be unredistributable.

The Fraunhofer FDK AAC and OpenSSL libraries are under licenses which are

incompatible with the GPLv2 and v3. To the best of our knowledge, they are compatible with the LGPL.

The NVENC library, while its header file is licensed under the compatible MIT license, requires a proprietary binary blob at run time, and is deemed to be incompatible with the GPL. We are not certain if it is compatible with the LGPL, but we require `--enable-nonfree` even with LGPL configurations in case it is not.

\*\*\*\*\*

libavcodec/arm/vp8dsp\_armv6.S

VP8 ARMv6 optimisations

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\*\*\*\*\*

```

libavcodec/x86/xvididct.asm
XVID MPEG-4 VIDEO CODEC
Conversion from gcc syntax to x264asm syntax with modifications
by Christophe Gisquet <christophe.gisquet@gmail.com>;
===== SSE2 inverse discrete cosine transform =====
Copyright(C) 2003 Pascal Massimino <skal@planet-d.net>;
Conversion to gcc syntax with modifications
by Alexander Strange <astrange@ithinksw.com>;
Originally from dct/x86_asm/fdct_sse2_skal.asm in Xvid.
Vertical pass is an implementation of the scheme:
Loeffler C., Ligtenberg A., and Moschytz C.S.:
Practical Fast 1D DCT Algorithm with Eleven Multiplications,
Proc. ICASSP 1989, 988-991.
Horizontal pass is a double 4x4 vector/matrix multiplication,
(see also Intel's Application Note 922:
http://developer.intel.com/vtune/cbts/strmsimd/922down.htm
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More details at http://skal.planet-d.net/coding/dct.html
===== MMX and XMM forward discrete cosine transform =====
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http://developer.intel.com/vtune/cbts/strmsimd/922down.htm
(See more app notes at http://developer.intel.com/vtune/cbts/strmsimd/appnotes.htm)
but in a limited edition.
New macro implements a column part for precise iDCT
The routine precision now satisfies IEEE standard 1180-1990.
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Rounding trick Copyright(C) 2000 Michel Lespinasse <walken@zoy.org>;
http://www.eleccard.com/peter/idct.html
http://www.linuxvideo.org/mpeg2dec/
These examples contain code fragments for first stage iDCT 8x8
(for rows) and first stage DCT 8x8 (for columns)
conversion to gcc syntax by Michael Niedermayer
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*****
libavcodec/arm/jrevdct_arm.S
C-like prototype :
void j_rev_dct_arm(DCTBLOCK data)

```

With DCTBLOCK being a pointer to an array of 64 'signed shorts'  
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libavcodec/mips/celp\_math\_mips.c

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Author: Stanislav Ocovaj (socovaj@mips.com)

Author: Zoran Lukic (zoranl@mips.com)

Optimized MDCT/IMDCT and FFT transforms

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libavcodec/mips/acelp\_filters\_mips.c

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various filters for ACELP-based codecs optimized for MIPS

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libavcodec/jfdctfst.c  
libavcodec/jfdctint\_template.c

libavcodec/jrevdct.c

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libavcodec/fft\_fixed\_32.c

libavcodec/fft\_init\_table.c

libavcodec/fft\_table.h

libavcodec/mdct\_fixed\_32.c

libavcodec/mips/aacdec\_mips.c

libavcodec/mips/aacdec\_mips.h

libavcodec/mips/aacpsdsp\_mips.c

libavcodec/mips/aacsbr\_mips.c

libavcodec/mips/aacsbr\_mips.h

libavcodec/mips/amrwbdec\_mips.h

libavcodec/mips/compute\_antialias\_fixed.h

libavcodec/mips/compute\_antialias\_float.h

libavcodec/mips/lsp\_mips.h

libavcodec/mips/sbrdsp\_mips.c

libavutil/fixed\_dsp.c

libavutil/fixed\_dsp.h

libavutil/mips/float\_dsp\_mips.c

libavutil/mips/libm\_mips.h

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libavutil/softfloat_tables.h
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gestures

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GVR Android SDK

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curl
*****

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dynamic_annotations
*****

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eigen3

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Following applies to:

./test/mapstaticmethods.cpp

./test/schur\_real.cpp

./test/prec\_inverse\_4x4.cpp

./test/smallvectors.cpp

./test/redux.cpp

./test/special\_numbers.cpp

./test/adjoint.cpp

./test/resize.cpp

```
./test/mixingtypes.cpp
./test/product_trmv.cpp
./test/sparse_solvers.cpp
./test/cholesky.cpp
./test/geo_quaternion.cpp
./test/miscmatrices.cpp
./test/stddeque.cpp
./test/integer_types.cpp
./test/product_large.cpp
./test/eigensolver_generic.cpp
./test/householder.cpp
./test/geo_orthomethods.cpp
./test/array_for_matrix.cpp
./test/sparseLM.cpp
./test/upperbidiagonalization.cpp
./test/nomalloc.cpp
./test/packetmath.cpp
./test/jacobisvd.cpp
./test/geo_transformations.cpp
./test/swap.cpp
./test/eigensolver_selfadjoint.cpp
./test/inverse.cpp
./test/product_selfadjoint.cpp
./test/product_trsolve.cpp
./test/product_extra.cpp
./test/sparse_solver.h
./test/mapstride.cpp
./test/mapped_matrix.cpp
./test/geo_eulerangles.cpp
./test/eigen2support.cpp
./test/denseLM.cpp
./test/stdvector.cpp
./test/nesting_ops.cpp
./test/sparse_permutations.cpp
./test/zerosized.cpp
./test/exceptions.cpp
./test/vectorwiseop.cpp
./test/cwiseop.cpp
./test/basicstuff.cpp
./test/product_trmm.cpp
./test/linearstructure.cpp
./test/sparse_product.cpp
./test/stdvector_overload.cpp
./test/stable_norm.cpp
./test/umeyama.cpp
./test/unalignedcount.cpp
./test/triangular.cpp
./test/product_mmtr.cpp
./test/sparse_basic.cpp
./test/sparse_vector.cpp
```



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./test/meta.cpp
./test/real_qz.cpp
./test/ref.cpp
./test/eigensolver_complex.cpp
./test/cholmod_support.cpp
./test/conjugate_gradient.cpp
./test/sparse.h
./test/simplicial_cholesky.cpp
./test/bicgstab.cpp
./test/dynalloc.cpp
./test/product_notemporary.cpp
./test/geo_hyperplane.cpp
./test/lu.cpp
./test/qr.cpp
./test/hessenberg.cpp
./test/sizeof.cpp
./test/main.h
./test/selfadjoint.cpp
./test/permutationmatrices.cpp
./test/superlu_support.cpp
./test/qtvector.cpp
./test/geo_homogeneous.cpp
./test/determinant.cpp
./test/array_reverse.cpp
./test/unalignedassert.cpp
./test/stdlist.cpp
./test/product_symm.cpp
./test/corners.cpp
./test/dontalign.cpp
./test/visitor.cpp
./test/geo_alignedbox.cpp
./test/diagonalmatrices.cpp
./test/product_small.cpp
./test/eigensolver_generalized_real.cpp
./test/umfpack_support.cpp
./test/first_aligned.cpp
./test/qr_fullpivoting.cpp
./test/array_replicate.cpp
./test/geo_parametrizedline.cpp
./test/eigen2/eigen2_unalignedassert.cpp
./test/eigen2/eigen2_prec_inverse_4x4.cpp
./test/eigen2/eigen2_alignedbox.cpp
./test/eigen2/eigen2_sparse_product.cpp
./test/eigen2/eigen2_meta.cpp
./test/eigen2/eigen2_nomalloc.cpp
./test/eigen2/eigen2_visitor.cpp
./test/eigen2/eigen2_packetmath.cpp
./test/eigen2/eigen2_svd.cpp
./test/eigen2/eigen2_mixingtypes.cpp
./test/eigen2/eigen2_qr.cpp
```

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./test/eigen2/eigen2_cwiseop.cpp
./test/eigen2/eigen2_geometry_with_eigen2_prefix.cpp
./test/eigen2/eigen2_smallvectors.cpp
./test/eigen2/eigen2_commainitializer.cpp
./test/eigen2/eigen2_sparse_solvers.cpp
./test/eigen2/eigen2_hyperplane.cpp
./test/eigen2/eigen2_eigensolver.cpp
./test/eigen2/eigen2_linearstructure.cpp
./test/eigen2/eigen2_sizeof.cpp
./test/eigen2/eigen2_parametrizedline.cpp
./test/eigen2/eigen2_lu.cpp
./test/eigen2/eigen2_adjoint.cpp
./test/eigen2/eigen2_geometry.cpp
./test/eigen2/eigen2_stdvector.cpp
./test/eigen2/eigen2_newstdvector.cpp
./test/eigen2/eigen2_submatrices.cpp
./test/eigen2/sparse.h
./test/eigen2/eigen2_swap.cpp
./test/eigen2/eigen2_triangular.cpp
./test/eigen2/eigen2_basicstuff.cpp
./test/eigen2/gsl_helper.h
./test/eigen2/eigen2_dynalloc.cpp
./test/eigen2/eigen2_array.cpp
./test/eigen2/eigen2_map.cpp
./test/eigen2/main.h
./test/eigen2/eigen2_miscmatrices.cpp
./test/eigen2/eigen2_product_large.cpp
./test/eigen2/eigen2_first_aligned.cpp
./test/eigen2/eigen2_cholesky.cpp
./test/eigen2/eigen2_determinant.cpp
./test/eigen2/eigen2_sum.cpp
./test/eigen2/eigen2_inverse.cpp
./test/eigen2/eigen2_regression.cpp
./test/eigen2/eigen2_product_small.cpp
./test/eigen2/eigen2_qtvector.cpp
./test/eigen2/eigen2_sparse_vector.cpp
./test/eigen2/product.h
./test/eigen2/eigen2_sparse_basic.cpp
./test/eigen2/eigen2_bug_132.cpp
./test/array.cpp
./test/product_syrk.cpp
./test/commainitializer.cpp
./test/conservative_resize.cpp
./test/qr_colpivoting.cpp
./test/nullary.cpp
./test/bandmatrix.cpp
./test/pastix_support.cpp
./test/product.h
./test/block.cpp
./test/vectorization_logic.cpp
```

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./test/jacobi.cpp
./test/diagonal.cpp
./test/schur_complex.cpp
./test/sizeoverflow.cpp
./bench/BenchTimer.h
./bench/benchFFT.cpp
./bench/eig33.cpp
./bench/spbench/spbenchsolver.h
./bench/spbench/spbenchstyle.h
./lapack/complex_double.cpp
./lapack/cholesky.cpp
./lapack/lapack_common.h
./lapack/eigenvalues.cpp
./lapack/single.cpp
./lapack/lu.cpp
./lapack/complex_single.cpp
./lapack/double.cpp
./demos/mix_eigen_and_c/binary_library.cpp
./demos/mix_eigen_and_c/binary_library.h
./demos/mix_eigen_and_c/example.c
./demos/mandelbrot/mandelbrot.cpp
./demos/mandelbrot/mandelbrot.h
./demos/opengl/icosphere.cpp
./demos/opengl/icosphere.h
./demos/opengl/camera.cpp
./demos/opengl/quaternion_demo.h
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./demos/opengl/trackball.h
./demos/opengl/gpuhelper.h
./demos/opengl/trackball.cpp
./demos/opengl/gpuhelper.cpp
./demos/opengl/quaternion_demo.cpp
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./unsupported/test/minres.cpp
./unsupported/test/openglsupport.cpp
./unsupported/test/jacobisvd.cpp
./unsupported/test/dgmres.cpp
./unsupported/test/matrix_square_root.cpp
./unsupported/test/bdcsvd.cpp
./unsupported/test/matrix_exponential.cpp
./unsupported/test/forward_adolc.cpp
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 ./Eigen/src/Eigenvalues/SelfAdjointEigenSolver\_MKL.h  
 ./Eigen/src/Eigenvalues/SelfAdjointEigenSolver\_MKL.h  
 ./Eigen/src/Eigenvalues/RealSchur\_MKL.h  
 ./Eigen/src/Eigenvalues/RealSchur\_MKL.h  
 ./Eigen/src/LU/arch/Inverse\_SSE.h  
 ./Eigen/src/LU/arch/Inverse\_SSE.h  
 ./Eigen/src/LU/PartialPivLU\_MKL.h  
 ./Eigen/src/LU/PartialPivLU\_MKL.h  
 ./Eigen/src/QR/HouseholderQR\_MKL.h  
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 ./Eigen/src/QR/ColPivHouseholderQR\_MKL.h  
 ./Eigen/src/QR/ColPivHouseholderQR\_MKL.h  
 ./Eigen/src/SVD/JacobiSVD\_MKL.h  
 ./Eigen/src/SVD/JacobiSVD\_MKL.h  
 ./Eigen/src/PardisoSupport/PardisoSupport.h  
 ./Eigen/src/PardisoSupport/PardisoSupport.h  
 ./Eigen/src/Core/Assign\_MKL.h  
 ./Eigen/src/Core/Assign\_MKL.h  
 ./Eigen/src/Core/products/SelfadjointMatrixVector\_MKL.h  
 ./Eigen/src/Core/products/SelfadjointMatrixVector\_MKL.h



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./Eigen/src/Core/products/GeneralMatrixVector_MKL.h
./Eigen/src/Core/products/GeneralMatrixVector_MKL.h
./Eigen/src/Core/products/SelfadjointMatrixMatrix_MKL.h
./Eigen/src/Core/products/SelfadjointMatrixMatrix_MKL.h
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./Eigen/src/Core/products/GeneralMatrixMatrix_MKL.h
./Eigen/src/Core/products/TriangularMatrixVector_MKL.h
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Following applies to:

- ./test/metis\_support.cpp
- ./test/sparselu.cpp
- ./unsupported/test/mpreal/mpreal.h
- ./unsupported/Eigen/src/IterativeSolvers/IterationController.h
- ./unsupported/Eigen/src/IterativeSolvers/ConstrainedConjGrad.h
- ./unsupported/Eigen/src/Eigenvalues/ArpackSelfAdjointEigenSolver.h
- ./Eigen/src/OrderingMethods/Amd.h
- ./Eigen/src/SparseCholesky/SimplicialCholesky\_impl.h

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./unsupported/Eigen/src/LevenbergMarquardt/LevenbergMarquardt.h

```
./unsupported/Eigen/src/LevenbergMarquardt/LMcovar.h
./unsupported/Eigen/src/LevenbergMarquardt/LMonestep.h
./unsupported/Eigen/src/LevenbergMarquardt/LMpar.h
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GL

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Main Mesa code src/ mesa/ Brian Paul Mesa (MIT)

Device drivers src/ mesa/ drivers/ \* See drivers See drivers

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include/ GL/ glxext.h

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java/android\_libs/exoplayer

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javascript/jquery/v2\_0\_1

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javascript/tracing\_framework

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java\_src/android\_libs/protobuf\_nano/v2

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jpeg

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(extracted from src/README)

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libunwind

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libvorbis

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libxcb

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libxml

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Libxml2, an XML C Parser

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mongoose

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objective_c/gtm_session_fetcher
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openctm

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xmpmeta

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zlib

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jsoncpp

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September 29, 2017

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

source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law. If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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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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libudev

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Version 2.1, February 1999

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

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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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p=opus.git;a=snapshot;h=3fe744ea04fdcc418fb85c2c133d13372ebb019b;sf=tgz

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pyjson5

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xdg-user-dirs

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