

R&S[®] OSP

Open Switch and Control Unit

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Phone: +49 89 41 29 - 0

Fax: +49 89 41 29 12 164

Email: info@rohde-schwarz.com

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Annex

A Base system license texts

This annex contains the license texts for the base system of the product, i.e., the bootloader, the Linux kernel, and the root filesystem.

For the standard licenses, see the chapter "3 Verbatim license texts":

The other license texts (usually MIT-style or BSD-style licenses) are appended below:

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- acl-2.2.52: doc/COPYING.LGPL
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- acpid-2.0.32: acpid.h, 1-24
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- avahi-0.7: avahi-common/address.h, 1-25
- avahi-0.7: avahi-core/dns.h, 1-23
- avahi-0.7: avahi-daemon/main.c, 1-21
- avahi-0.7: avahi-client/client.h, 1-23
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- xz-5.2.4: lib/getopt.c, 1-23
- zeromq-4.3.2: COPYING.LESSER
- zlib-1.2.11: zlib.h, 6-23

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

```
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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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but WITHOUT ANY WARRANTY; without even the implied warranty of
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```
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```

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
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```
=====
acpid-2.0.32: 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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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
```

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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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```
=====
acpid-2.0.32: acpid.h, 1-24
=====
```

```
/*
 * acpid.h - ACPI daemon
 *
 * Copyright (C) 1999-2000 Andrew Henroid
 * Copyright (C) 2001 Sun Microsystems
 * Portions Copyright (C) 2004 Tim Hockin (thockin@hockin.org)
 *
 * This program is free software; you can redistribute it and/or modify
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 * the Free Software Foundation; either version 2 of the License, or
 * (at your option) any later version.
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```

```
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*
* You should have received a copy of the GNU General Public License
* along with this program; if not, write to the Free Software
* Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
*/
```

```
#ifndef ACPID_H__
#define ACPID_H__
```

```
=====
adwaita-icon-theme-3.32.0: COPYING
=====
```

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```
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```

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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

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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.
- e) Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.

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

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

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

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```
<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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```

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```

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

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

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

That's all there is to it!

```
=====
alsa-lib-1.1.9: src/socket.c, 9-24
=====
```

```
* Copyright (c) 2003 by Abramo Bagnara <abramo@alsa-project.org>
*
*
* This library is free software; you can redistribute it and/or modify
```

```

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```

```

=====
atk-2.32.0: COPYING
pango-1.44.6: COPYING
=====

```

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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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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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

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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

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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.

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

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

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

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

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

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

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

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

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

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

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

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

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```

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```
=====
atk-2.32.0: atk/atkutil.c, 1-18
=====
```

```
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 *
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 */
```

```
=====
atk-2.32.0: atk/atk.h, 1-18
=====
```

```
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 *
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*/
```

```
=====
at-spi2-atk-2.32.0: COPYING
at-spi2-core-2.32.1: COPYING
=====
```

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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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```
=====
attr-2.4.47: attr/attr.c, 1-17
=====
```



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 */
```

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

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```

```
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That's all there is to it!

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

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

```
/**
```

```
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```

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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>

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```
=====
ca-certificates-20190110: 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>
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(certdata.txt <= CVS Revision: 1.82)

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Oct 13, 1998 by Wes Peters <wes@softweyr.com>

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Origin: <http://code.google.com/p/y2038>

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Theo de Raadt <deraadt@openbsd.org> came up with the idea of using such a mathematical system to generate more random (yet non-repeating) ids to solve the resolver/named problem. But Niels designed the actual system based on the constraints.

Later modified by Damien Miller to wrap the LCG output in a 15-bit permutation generator based on a Luby-Rackoff block cipher. This ensures the output is non-repeating and preserves the MSB twiddle trick, but makes it more resistant to LCG prediction.

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```
=====
chromium-80.0.3987.132: native_client/LICENSE
=====
```

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```
=====
chromium-80.0.3987.132: native_client_sdk/src/libraries/third_party/newlib-extras/README
=====
```

README for newlib-2.0.0 release
(mostly cribbed from the README in the gdb-4.13 release)

This is `newlib`, a simple ANSI C library, math library, and collection of board support packages.

The newlib and libgloss subdirectories are a collection of software from several sources, each with their own copyright and license. See the file COPYING.NEWLIB for details. The rest of the release tree is under either the GNU GPL or LGPL licenses.

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Unpacking and Installation -- quick overview
=====

When you unpack the newlib-2.0.0.tar.gz file, you'll find a directory called `newlib-2.0.0', which contains:

COPYING	config/	install-sh*	mpw-configure
COPYING.LIB	config-ml.in	libgloss/	mpw-install
COPYING.NEWLIB	config.guess*	mkinstalldirs*	newlib/
CYGNUS	config.sub*	move-if-change*	symlink-tree*
ChangeLog	configure*	mpw-README	texinfo/
Makefile.in	configure.in	mpw-build.in	
README	etc/	mpw-config.in	

To build NEWLIB, you must follow the instructions in the section entitled "Compiling NEWLIB".

This will configure and build all the libraries and crt0 (if one exists). If `configure' can't determine your host system type, specify one as its

argument, e.g., sun4 or sun4sol2. NEWLIB is most often used in cross environments.

NOTE THAT YOU MUST HAVE ALREADY BUILT AND INSTALLED GCC and BINUTILS.

More Documentation

=====

Newlib documentation is available on the net via:
<http://sourceware.org/newlib/docs.html>

All the documentation for NEWLIB comes as part of the machine-readable distribution. The documentation is written in Texinfo format, which is a documentation system that uses a single source file to produce both on-line information and a printed manual. You can use one of the Info formatting commands to create the on-line version of the documentation and TeX (or ``texi2roff'`) to typeset the printed version.

If you want to format these Info files yourself, you need one of the Info formatting programs, such as ``texinfo-format-buffer'` or ``makeinfo'`.

If you want to typeset and print copies of this manual, you need TeX, a program to print its DVI output files, and ``texinfo.tex'`, the Texinfo definitions file.

TeX is a typesetting program; it does not print files directly, but produces output files called DVI files. To print a typeset document, you need a program to print DVI files. If your system has TeX installed, chances are it has such a program. The precise command to use depends on your system; ``lpr -d'` is common; another (for PostScript devices) is ``dvips'`. The DVI print command may require a file name without any extension or a ``.dvi'` extension.

TeX also requires a macro definitions file called ``texinfo.tex'`. This file tells TeX how to typeset a document written in Texinfo format. On its own, TeX cannot read, much less typeset a Texinfo file. ``texinfo.tex'` is distributed with NEWLIB and is located in the ``newlib-VERSION-NUMBER/texinfo'` directory.

Compiling NEWLIB

=====

To compile NEWLIB, you must build it in a directory separate from the source directory. If you want to run NEWLIB versions for several host or target machines, you need a different ``newlib'` compiled for each combination of host and target. ``configure'` is designed to make this easy by allowing you to generate each configuration in a separate subdirectory.

If your `make` program handles the `VPATH` feature correctly (like GNU `make`) running `make` in each of these directories builds the `newlib` libraries specified there.

To build `newlib` in a specific directory, run `configure` with the `--srcdir` option to specify where to find the source. (You also need to specify a path to find `configure` itself from your working directory. If the path to `configure` would be the same as the argument to `--srcdir`, you can leave out the `--srcdir` option; it will be assumed.)

For example, with version 2.0.0, you can build NEWLIB in a separate directory for a Sun 4 cross m68k-aout environment like this:

```
cd newlib-2.0.0
mkdir ../newlib-m68k-aout
cd ../newlib-m68k-aout
../newlib-2.0.0/configure --host=sun4 --target=m68k-aout
make
```

When `configure` builds a configuration using a remote source directory, it creates a tree for the binaries with the same structure (and using the same names) as the tree under the source directory. In the example, you'd find the Sun 4 library `libiberty.a` in the directory `newlib-m68k-aout/libiberty`, and NEWLIB itself in `newlib-m68k-aout/newlib`.

When you run `make` to build a program or library, you must run it in a configured directory--whatever directory you were in when you called `configure` (or one of its subdirectories).

The `Makefile` that `configure` generates in each source directory also runs recursively. If you type `make` in a source directory such as `newlib-2.0.0` (or in a separate configured directory configured with `--srcdir=PATH/newlib-2.0.0`), you will build all the required libraries.

When you have multiple hosts or targets configured in separate directories, you can run `make` on them in parallel (for example, if they are NFS-mounted on each of the hosts); they will not interfere with each other.

Specifying names for hosts and targets

=====

The specifications used for hosts and targets in the `configure` script are based on a three-part naming scheme, but some short predefined aliases are also supported. The full naming scheme encodes three pieces of information in the following pattern:

ARCHITECTURE-VENDOR-OS

For example, you can use the alias `sun4' as a HOST argument or in a `--target=TARGET' option. The equivalent full name is `sparc-sun-sunos4'.

The `configure' script accompanying NEWLIB does not provide any query facility to list all supported host and target names or aliases. `configure' calls the Bourne shell script `config.sub' to map abbreviations to full names; you can read the script, if you wish, or you can use it to test your guesses on abbreviations--for example:

```
% sh config.sub sun4
sparc-sun-sunos4.1.1
% sh config.sub sun3
m68k-sun-sunos4.1.1
% sh config.sub decstation
mips-dec-ultrix4.2
% sh config.sub hp300bsd
m68k-hp-bsd
% sh config.sub i386v
i386-pc-sysv
% sh config.sub i786v
Invalid configuration `i786v': machine `i786v' not recognized
```

The Build, Host and Target Concepts in newlib
 =====

The build, host and target concepts are defined for gcc as follows:

```
build: the platform on which gcc is built.
host:  the platform on which gcc is run.
target: the platform for which gcc generates code.
```

Since newlib is a library, the target concept does not apply to it, and the build, host, and target options given to the top-level configure script must be changed for newlib's use.

The options are shifted according to these correspondences:

```
gcc's build platform has no equivalent in newlib.
gcc's host platform is newlib's build platform.
gcc's target platform is newlib's host platform.
and as mentioned before, newlib has no concept of target.
```

`configure' options
 =====

Here is a summary of the `configure' options and arguments that are most often useful for building NEWLIB. `configure' also has several other

options not listed here.

```
configure [--help]
           [--prefix=DIR]
           [--srcdir=PATH]
           [--target=TARGET] HOST
```

You may introduce options with a single '-' rather than '--' if you prefer; but you may abbreviate option names if you use '--'.

```
'--help'
  Display a quick summary of how to invoke 'configure'.
```

```
'--prefix=DIR'
  Configure the source to install programs and files in directory
  'DIR'.
```

```
'--exec-prefix=DIR'
  Configure the source to install host-dependent files in directory
  'DIR'.
```

```
'--srcdir=PATH'
  *Warning: using this option requires GNU 'make', or another 'make'
  that compatibly implements the 'VPATH' feature.
  Use this option to make configurations in directories separate
  from the NEWLIB source directories. Among other things, you can use
  this to build (or maintain) several configurations simultaneously,
  in separate directories. 'configure' writes configuration
  specific files in the current directory, but arranges for them to
  use the source in the directory PATH. 'configure' will create
  directories under the working directory in parallel to the source
  directories below PATH.
```

```
'--norecursion'
  Configure only the directory level where 'configure' is executed;
  do not propagate configuration to subdirectories.
```

```
'--target=TARGET'
  Configure NEWLIB for running on the specified TARGET.

  There is no convenient way to generate a list of all available
  targets.
```

```
'HOST ...'
  Configure NEWLIB to be built using a cross compiler running on
  the specified HOST.

  There is no convenient way to generate a list of all available
  hosts.
```

To fit diverse usage models, NEWLIB supports a group of configuration options so that library features can be turned on/off according to target system's requirements.

One feature can be enabled by specifying `--enable-FEATURE=yes` or `--enable-FEATURE`. Or it can be disabled by `--enable-FEATURE=no` or `--disable-FEATURE`.

`--enable-newlib-io-pos-args`

Enable printf-family positional arg support.

Disabled by default, but some hosts enable it in `configure.host`.

`--enable-newlib-io-c99-formats`

Enable C99 support in IO functions like `printf/scanf`.

Disabled by default, but some hosts enable it in `configure.host`.

`--enable-newlib-register-fini`

Enable finalization function registration using `atexit`.

Disabled by default.

`--enable-newlib-io-long-long`

Enable long long type support in IO functions like `printf/scanf`.

Disabled by default, but many hosts enable it in `configure.host`.

`--enable-newlib-io-long-double`

Enable long double type support in IO functions `printf/scanf`.

Disabled by default, but some hosts enable it in `configure.host`.

`--enable-newlib-mb`

Enable multibyte support.

Disabled by default.

`--enable-newlib-iconv-encodings`

Enable specific comma-separated list of bidirectional iconv encodings to be built-in.

Disabled by default.

`--enable-newlib-iconv-from-encodings`

Enable specific comma-separated list of `"from"` iconv encodings to be built-in.

Disabled by default.

`--enable-newlib-iconv-to-encodings`

Enable specific comma-separated list of `"to"` iconv encodings to be built-in.

Disabled by default.

`--enable-newlib-iconv-external-ccs`

Enable capabilities to load external CCS files for iconv.

Disabled by default.

```
`--disable-newlib-atexit-dynamic-alloc'  
    Disable dynamic allocation of atexit entries.  
    Most hosts and targets have it enabled in configure.host.  
  
`--enable-newlib-reent-small'  
    Enable small reentrant struct support.  
    Disabled by default.  
  
`--disable-newlib-fvwrite-in-streamio'  
    NEWLIB implements the vector buffer mechanism to support stream IO  
    buffering required by C standard. This feature is possibly  
    unnecessary for embedded systems which won't change file buffering  
    with functions like `setbuf' or `setvbuf'. The buffering mechanism  
    still acts as default for STDIN/STDOUT/STDERR even if this option  
    is specified.  
    Enabled by default.  
  
`--disable-newlib-fseek-optimization'  
    Disable fseek optimization. It can decrease code size of application  
    calling `fseek`.  
    Enabled by default.  
  
`--disable-newlib-wide-orient'  
    C99 states that each stream has an orientation, wide or byte. This  
    feature is possibly unnecessary for embedded systems which only do  
    byte input/output operations on stream. It can decrease code size  
    by disable the feature.  
    Enabled by default.  
  
`--enable-newlib-nano-malloc'  
    NEWLIB has two implementations of malloc family's functions, one in  
    `mallocr.c' and the other one in `nano-mallocr.c'. This options  
    enables the nano-malloc implementation, which is for small systems  
    with very limited memory. Note that this implementation does not  
    support `--enable-malloc-debugging' any more.  
    Disabled by default.  
  
`--disable-newlib-unbuf-stream-opt'  
    NEWLIB does optimization when `fprintf to write only unbuffered unix  
    file'. It creates a temporary buffer to do the optimization that  
    increases stack consumption by about `BUFSIZ' bytes. This option  
    disables the optimization and saves size of text and stack.  
    Enabled by default.  
  
`--enable-multilib'  
    Build many library versions.  
    Enabled by default.  
  
`--enable-target-optspace'
```

Optimize for space.
Disabled by default.

`--enable-malloc-debugging'
Indicate malloc debugging requested.
Disabled by default.

`--enable-newlib-multithread'
Enable support for multiple threads.
Enabled by default.

`--enable-newlib-iconv'
Enable iconv library support.
Disabled by default.

`--enable-newlib-elix-level'
Supply desired elix library level (1-4). Please refer to HOWTO for
more information about this option.
Set to level 0 by default.

`--disable-newlib-io-float'
Disable printf/scanf family float support.
Enabled by default.

`--disable-newlib-supplied-syscalls'
Disable newlib from supplying syscalls.
Enabled by default.

`--enable-lite-exit'
Enable lite exit, a size-reduced implementation of exit that doesn't
invoke clean-up functions such as `_fini` or global destructors.
Disabled by default.

Running the Testsuite

=====

To run newlib's testsuite, you'll need a `site.exp` in your home
directory which points `dejagnu` to the proper baseboards directory and
the proper `exp` file for your target.

Before running `make check-target-newlib`, set the `DEJAGNU` environment
variable to point to `~/site.exp`.

Here is a sample `site.exp`:

```
# Make sure we look in the right place for the board description files.
if ![info exists boards_dir] {
    set boards_dir {}
}
lappend boards_dir "your dejagnu/baseboards here"
```

```
verbose "Global Config File: target_triplet is $target_triplet" 2
```

```
global target_list
case "$target_triplet" in {

    { "mips-*elf*" } {
        set target_list "mips-sim"
    }

    default {
        set target_list { "unix" }
    }
}
```

mips-sim refers to an exp file in the baseboards directory. You'll need to add the other targets you're testing to the case statement.

Now type `make check-target-newlib` in the top-level build directory to run the testsuite.

Shared newlib
=====

newlib uses libtool when it is being compiled natively (with `--target=i[34567]86-pc-linux-gnu`) on an `i[34567]86-pc-linux-gnu` host. This allows newlib to be compiled as a shared library.

To configure newlib, do the following from your build directory:

```
$(source_dir)/src/configure --with-newlib --prefix=$(install_dir)
```

configure will recognize that `host == target == i[34567]86-pc-linux-gnu`, so it will tell newlib to compile itself using libtool. By default, libtool will build shared and static versions of newlib.

To compile a program against shared newlib, do the following (where `target_install_dir = $(install_dir)/i[34567]86-pc-linux-gnu`):

```
gcc -nostdlib $(target_install_dir)/lib/crt0.o progname.c -I
$(target_install_dir)/include -L $(target_install_dir)/lib -lc -lm -lgcc
```

To run the program, make sure that `$(target_install_dir)/lib` is listed in the `LD_LIBRARY_PATH` environment variable.

To create a static binary linked against newlib, do the following:

```
gcc -nostdlib -static $(target_install_dir)/lib/crt0.o progname.c -I
$(target_install_dir)/include -L $(target_install_dir)/lib -lc -lm
```

libtool can be instructed to produce only static libraries. To build newlib as a static library only, do the following from your build directory:

```
$(source_dir)/src/configure --with-newlib --prefix=$(install_dir) --disable-shared
```

Regenerating Configuration Files

```
=====
```

At times you will need to make changes to `configure.in` and `Makefile.am` files. This will mean that `configure` and `Makefile.in` files will need to be regenerated.

At the top level of newlib is the file: `acinclude.m4`. This file contains the definition of the `NEWLIB_CONFIGURE` macro which is used by all `configure.in` files in newlib. You will notice that each directory in newlib containing a `configure.in` file also contains an `aclocal.m4` file. This file is generated by issuing: `aclocal -I${relative_path_to_toplevel_newlib_dir} -I${relative_path_to_toplevel_src_dir}`. The first relative directory is to access `acinclude.m4`. The second relative directory is to access libtool information in the top-level `src` directory.

For example, to regenerate `aclocal.m4` in `newlib/libc/machine/arm`:

```
aclocal -I ../../.. -I ../../../../..
```

Note that if the top level `acinclude.m4` is altered, every `aclocal.m4` file in newlib should be regenerated.

If the `aclocal.m4` file is regenerated due to a change in `acinclude.m4` or if a `configure.in` file is modified, the corresponding `configure` file in the directory must be regenerated using `autoconf`. No parameters are necessary. In the previous example, we would issue:

```
autoconf
```

from the `newlib/libc/machine/arm` directory.

If you have regenerated a `configure` file or if you have modified a `Makefile.am` file, you will need to regenerate the appropriate `Makefile.in` file(s). For newlib, `automake` is a bit trickier. First of all, all `Makefile.in` files in newlib (and `libgloss`) are generated using the `--cygnus` option of `automake`.

`Makefile.in` files are generated from the nearest directory up the chain which contains a `configure.in` file. In most cases, this is the same directory containing `configure.in`, but there are exceptions. For example, the `newlib/libc` directory has a number of subdirectories that do not contain their own `configure.in` files (e.g. `stdio`).

For these directories, you must issue the automake command from newlib/libc which is the nearest parent directory that contains a configure.in. When you issue the automake command, you specify the subdirectory for the Makefile.in you are regenerating. For example:

```
automake --cygnus stdio/Makefile stdlib/Makefile
```

Note how multiple Makefile.in files can be created in the same step. You would not specify machine/Makefile or sys/Makefile in the previous example because both of these subdirectories contain their own configure.in files. One would change to each of these subdirectories and in turn issue:

```
automake --cygnus Makefile
```

Let's say you create a new machine directory XXXX off of newlib/libc/machine. After creating a new configure.in and Makefile.am file, you would issue:

```
aclocal -I ../../..
autoconf
automake --cygnus Makefile
```

```
from newlib/libc/machine/XXXX
```

It is strongly advised that you use an adequate version of autotools. For this latest release, the following were used: autoconf 2.68, aclocal 1.11.6, and automake 1.11.6.

Reporting Bugs

```
=====
```

The correct address for reporting bugs found in NEWLIB is "newlib@sourceware.org". Please email all bug reports to that address. Please include the NEWLIB version number (e.g., newlib-2.0.0), and how you configured it (e.g., "sun4 host and m68k-aout target"). Since NEWLIB supports many different configurations, it is important that you be precise about this.

Archives of the newlib mailing list are on-line, see

```
http://sourceware.org/ml/newlib/
```

```
=====
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December 9, 2016

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=====
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expat-2.2.8: COPYING
=====
```

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```
=====
chromium-80.0.3987.132: third_party/ffmpeg/CREDITS.chromium
=====
```

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Specifically, the GPL parts of FFmpeg are:

- 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/txi2pod.pl`
 - `libswresample/tests/swresample.c`
 - `tests/checkasm/*`
 - `tests/tiny_ssim.c`
- the following filters in libavfilter:
 - `signature_lookup.c`
 - `vf_blackframe.c`
 - `vf_boxblur.c`
 - `vf_colormatrix.c`
 - `vf_cover_rect.c`
 - `vf_croptdetect.c`
 - `vf_delogo.c`
 - `vf_eq.c`
 - `vf_find_rect.c`


```

- `vf_fspp.c`
- `vf_geq.c`
- `vf_histeq.c`
- `vf_hqdn3d.c`
- `vf_kerndeint.c`
- `vf_lensfun.c` (GPL version 3 or later)
- `vf_mcdeint.c`
- `vf_mpdecimate.c`
- `vf_nnedi.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_signature.c`
- `vf_smartblur.c`
- `vf_spp.c`
- `vf_stereo3d.c`
- `vf_super2xsai.c`
- `vf_tinterlace.c`
- `vf_uspp.c`
- `vf_vaguedenoiser.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 version 2:

- avisynth
- frei0r
- libcdio
- libdavs2
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- libxavs2
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

The following libraries are under LGPL version 3:

- gmp
- libaribb24
- liblensfun

When combining them with FFmpeg, use the configure option `--enable-version3` to upgrade FFmpeg to the LGPL v3.

The VMAF, mbedTLS, RK MPI, 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.

The smbclient library is under the GPL v3, to combine it with FFmpeg, the options `--enable-gpl` and `--enable-version3` have to be passed to configure to upgrade FFmpeg to the GPL v3.

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. This will 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.

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/arm/vp8dsp_armv6.S

VP8 ARMv6 optimisations

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libavcodec/mips/acelp_filters_mips.c

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Author: Nedeljko Babic (nbabic@mips.com)

various filters for ACELP-based codecs optimized for MIPS

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libavcodec/mips/acelp_vectors_mips.c

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adaptive and fixed codebook vector operations for ACELP-based codecs optimized for MIPS

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libavcodec/mips/amrbdec_mips.c

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libavcodec/mips/celp_filters_mips.c

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libavcodec/mips/celp_math_mips.c

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Math operations optimized for MIPS

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libavcodec/mips/fft_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/mpegauddsp_mips_float.c

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Author: Bojan Zivkovic (bojan@mips.com)

MPEG Audio decoder optimized for MIPS floating-point architecture

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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>
Copyright (C) 1999 Intel Corporation)

More details at <http://skal.planet-d.net/coding/dct.html>

===== MMX and XMM forward discrete cosine transform =====

Copyright(C) 2001 Peter Ross <pross@xvid.org>

Originally provided by Intel at AP-922
<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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<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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libavformat/oggparsetheora.c

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libavutil/avsscanf.c

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libswresample/swresample.h

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libswresample/version.h

Version macros.

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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/amrbdec_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
libavutil/softfloat_tables.h
```

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Authors:

Branimir Vasic	(bvasic@mips.com)
Darko Laus	(darko@mips.com)
Djordje Pesut	(djordje@mips.com)
Goran Cordasic	(goran@mips.com)

Nedeljko Babic (nedeljko.babic imgtec com)
 Mirjana Vulin (mvulin@mips.com)
 Stanislav Ocovaj (socovaj@mips.com)
 Zoran Lukic (zoranl@mips.com)

libavformat/oggdec.c
 libavformat/oggdec.h
 libavformat/oggparseogm.c
 libavformat/oggparsevorbis.c

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dynamic_annotations

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```
./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
./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
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./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
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./test/eigen2/eigen2_meta.cpp
./test/eigen2/eigen2_nomalloc.cpp
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./test/eigen2/eigen2_svd.cpp
./test/eigen2/eigen2_mixingtypes.cpp
./test/eigen2/eigen2_qr.cpp
./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
```

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./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
./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
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```
./lapack/complex_double.cpp
./lapack/cholesky.cpp
./lapack/lapack_common.h
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./lapack/double.cpp
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./demos/opengl/camera.h
./demos/opengl/trackball.h
./demos/opengl/gpuhelper.h
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./demos/opengl/quaternion_demo.cpp
./debug/gdb/printers.py
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./unsupported/test/bdcsvd.cpp
./unsupported/test/matrix_exponential.cpp
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./Eigen/src/IterativeLinearSolvers/ConjugateGradient.h
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 ./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
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./unsupported/Eigen/src/LevenbergMarquardt/LMonestep.h
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freetype2

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GL

Mesa Component Licenses

Component	Location	Primary Author	License
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Device drivers	src/mesa/drivers/*	See drivers	See drivers
Ext headers	include/GL/glext.h include/GL/glxext.h	SGI	SGI Free B
GLUT	src/glut/	Mark Kilgard	Mark's copyright
GLEW	src/glew-1.13.0	Nigel Stewart	Modified BSD
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SGI GLU library	src/glu/sgi/	SGI	SGI Free B
demo programs	progs/demos/	various	see source files
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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

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java/android_libs/protobuf_nano

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java_src/android_libs/protobuf_nano/v2
*****
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```
*****
jpeg
*****
(extracted from src/README)
```

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libunwind

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libvorbis

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libxcb

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```
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*****  
Libxml2, an XML C Parser
```

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lodepng

LodePNG

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zlib

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jloup@gzip.org	madler@alumni.caltech.edu

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mongoose

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*****
objective_c/gtm_session_fetcher
*****
```

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SGI STL
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```

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*****
utf
*****
UTF-8 Library
```

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

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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.

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

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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.

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

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

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

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

6. As an exception to the Sections above, you may also 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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BezierEasing - use bezier curve for transition easing function  
 by Gaëtan Renaudeau 2014 - 2015 - MIT License

Credits: is based on Firefox's nsSMILKeySpline.cpp  
 Usage:  
 var spline = BezierEasing([ 0.25, 0.1, 0.25, 1.0 ])  
 spline.get(x) => returns the easing value | x must be in [0, 1] range

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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>
```

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```

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This library is distributed in the hope that it will be useful,
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```

```
You should have received a copy of the GNU Lesser General Public
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```

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

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



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

That's all there is to it!

```
=====
chromium-80.0.3987.132: third_party/wayland-protocols/src/COPYING
=====
```

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```
=====
chromium-80.0.3987.132: third_party/wayland/src/COPYING
=====
```

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=====  
 chromium-80.0.3987.132: third\_party/wds/src/COPYING  
 =====

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

For an executable, the required form of the "work that uses the



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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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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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but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
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```

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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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```
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!

```
=====
chromium-80.0.3987.132: third_party/wtl/Ms-PL.txt
=====
```

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```
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chromium-80.0.3987.132: third_party/wuffs/LICENSE
=====
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=====
coreutils-8.31: src/ls.c, 1-15
=====
```

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dbus-1.12.16: dbus/dbus.h, 6-20
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Theodore Ts'o  
23-June-2007

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If you develop a new program, and you want it to be of the greatest

possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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

```
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.

-----  
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 Version 2, June 1991

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 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
 Everyone is permitted to copy and distribute verbatim copies  
 of this license document, but changing it is not allowed.

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

Preamble

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

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

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

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

it. And you must show them these terms so they know their rights.

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

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

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

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

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

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

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

will lead to faster development of free libraries.

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

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

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

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

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

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

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

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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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



your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.
```

```
You should have received a copy of the GNU Library General Public  
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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!

```
=====
e2fsprogs-1.45.3: 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-1.45.3: 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-1.45.3: 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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* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
* USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
* DAMAGE.
* %End-Header%
```

```
=====
e2fsprogs-1.45.3: lib/uuid/COPYING
util-linux-2.34: Documentation/licenses/COPYING.BSD-3-Clause
=====
```

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```
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DAMAGE.
```

```
=====
e2fsprogs-1.45.3: lib/et/et_name.c, 1-11
=====
```

```
/*
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```



```

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```

```

=====
e2fsprogs-1.45.3: lib/ss/ss.h, 1-20
=====

```

```

/*
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*
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* M.I.T. S.I.P.B. make no representations about the suitability of
* this software for any purpose. It is provided "as is" without
* express or implied warranty.
*
* 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...

```

```

=====
efivar-37: COPYING
=====

```

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Version 2.1, February 1999

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

## Preamble

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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 these things.

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

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

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

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```
=====
flac-1.3.3: src/Makefile.am, 1-17
=====
```

```
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#
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```
=====
flac-1.3.3: src/flac/main.c, 1-18
=====
```

```
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*/

```

```

=====
flac-1.3.3: src/plugin_common/all.h, 1-18
=====

```

```

/* plugin_common - Routines common to several plugins
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```
=====
flac-1.3.3: include/FLAC/all.h, 65-70
=====
```

```
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* library is licensed under <A HREF="http://www.xiph.org/licenses/bsd-license.html">Xiph's BSD license</A>.
* Complete source code of libFLAC as well as the command-line
* encoder and plugins is available and is a useful source of
* examples.
```

```
=====
fontconfig-2.13.1: src/fcft2type.c, 1-45
=====
```

```
/*
 * fontconfig/src/fcft2type.c
 *
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\*/

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

/\*

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\*

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\*

\* To compute the message digest of a chunk of bytes, declare an  
\* MD5Context structure, pass it to MD5Init, call MD5Update as  
\* needed on buffers full of bytes, and then call MD5Final, which  
\* will fill a supplied 16-byte array with the digest.

\*/

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=====

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```

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

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gdbm-1.18.1: COPYING
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```
=====
gdk-pixbuf-2.38.2: gdk-pixbuf/gdk-pixbuf.h, 1-26
=====
```

```
/* GdkPixbuf library - Main header file
 *
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 *
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#ifdef GDK_PIXBUF_H
```



```
#define GDK_PIXBUF_H
```

```
=====
glib-2.0-2.60.7: glib/glib.h, 4-17
glib-2.0-2.60.7: gmodule/gmodule.h, 4-17
=====
```

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```

```
=====
glib-2.0-2.60.7: glib/pcre/pcre.h, 8-36
=====
```

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```
=====
gnutls-3.6.13: LICENSE
=====
```

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

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

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

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

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

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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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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

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

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

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

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

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

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

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

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stating that you changed the files and the date of any change.

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

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

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

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

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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.

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

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

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



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

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

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

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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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```
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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!

```
=====
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)
 * Copyright (C) 2001-2018 g10 Code GmbH
 *
 * This file is part of GPGME.
 *
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```

```

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* You should have received a copy of the GNU Lesser General Public
* License along with this program; if not, see <https://gnu.org/licenses/>.
* 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)
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```

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```

#ifndef ENGINE_H

```

```

=====
gtk+3-3.24.8: COPYING
=====

```

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Version 2, June 1991

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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!

```
=====
gtk+3-3.24.8: gtk/gtk.h, 1-25
=====
```

```
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 * Copyright (C) 1995-1997 Peter Mattis, Spencer Kimball and Josh MacDonald
 *
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```



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*/

#ifdef __GTK_H__

=====
gtk+3-3.24.8: gdk/gdk.h, 1-25
=====

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*/

#ifdef __GDK_H__

=====
gtk+3-3.24.8: tests/testgtk.c, 1-25
=====

```

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 */

```

```

=====
harfbuzz-2.6.1: src/hb-ucd.cc, 1-15
=====

```

```

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=====
```

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=====
hdparm-9.58: wiper/GPLv2.txt
=====
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=====
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=====
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=====
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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in

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

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) 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; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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

If distribution of executable or object code is made by offering

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END OF TERMS AND CONDITIONS

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

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
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.
```

```
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., 675 Mass Ave, Cambridge, MA 02139, 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) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may 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.

```
=====
keyutils-1.6: LICENCE.LGPL
=====
```

```
GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999
```

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

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

```
Preamble
```

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

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

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

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

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

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

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

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

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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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.

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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- 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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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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```

```
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```

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```
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```

That's all there is to it!

```
=====
less-551: LICENSE
=====
```

```
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Less

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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).
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 *
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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
 * Copyright (C) 2001, 2002, 2004, 2005, 2007, 2008,
 *           2009, 2010 Free Software Foundation, Inc.
 *
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 */

```

```

=====
libblockdev-2.23: LICENSE

```

```

libbytesize-2.1: LICENSE
=====

```

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Version 2.1, February 1999

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libdaemon-0.14: libdaemon/daemon.h, 9-21  
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libdrm-2.4.99: xf86drm.c, 9-32
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libevdev-1.8.0: libevdev/libevdev.h, 1-21
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 */
```

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

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```
=====
libgpg-error-1.36: src/gpg-error.h.in, 2-18
=====
```

```
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```
=====
libgpg-error-1.36: src/init.c, 2-17
=====
```

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

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```
=====
libidn2-2.2.0: src/idn2.c, 1-16
=====
```

```
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```

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*/

```

```

=====
libidn2-2.2.0: lib/idn2.h.in, 1-27
=====

```

```

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=====

```

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[1]  
<https://gitlab.freedesktop.org/libinput/libinput/blob/master/include/linux/input.h>

```
=====
libjpeg-turbo-2.0.3: cdjpeg.h, 1-13
=====
```

```
/*
 * 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-2.0.3: jpeglib.h, 1-16
=====
```

```

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 *
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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-2.0.3: djpeg.c, 1-11
=====

```

```

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 * djpeg.c
 *
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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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```

```
=====
```

```
libmatchbox-1.12: libmb/mbexp.c, 1-20
```

```
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*/
```

```
#define _GNU_SOURCE
```

```
=====
```

```
libmatchbox-1.12: libmb/xsettings-client.c, 1-20
```

```

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 *

```

```

=====
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=====

```

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```
=====
libogg-1.3.4: include/ogg/ogg.h, 1-11
=====
```

```

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```

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=====
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```
=====
libpcre-8.43: LICENCE
=====
```

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

THE BASIC LIBRARY FUNCTIONS

-----

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

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```
=====
libpcre2-10.33: LICENCE
=====
```

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*/

```

```

=====
libtirpc-1.1.4: src/netname.c, 1-27
rpcbind-1.2.5: src/rpcinfo.c, 1-27
=====

```

```

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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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```

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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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@top GNU libunistring

@end ifnottex

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\* Conventions:: Conventions used in this manual

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* 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
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* 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?
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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
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```

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- \* Searching for a substring::
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Licenses

- \* GNU GPL:: GNU General Public License
- \* GNU LGPL:: GNU Lesser General Public License
- \* GNU FDL:: GNU Free Documentation License

@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 `{LC_CTYPE}` category.

@item

The sorting rules for text. This is the `{LC_COLLATE}` category.

@item

The language specific translations of messages. This is the `{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 `{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 `{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 @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 @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{strcasecmp}, @posixfunc{strncasecmp}, and @posixfunc{strcasestr} functions do not work with multibyte strings.

@end itemize

The workarounds can be found in GNU gnuilib

@url{http://www.gnu.org/software/gnuilib/}.

@itemize @bullet

@item

gnuilib 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

gnuilib 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

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

@item

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

@item

gnuilib has functions @func{mbscspn}, @func{mbspbrk}, @func{mbssp}

that are like @posixfunc{strcspn}, @posixfunc{strpbrk}, @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{mbsncasecmp}, @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 `{@var{s}, @var{n}}` denote a string `{@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 `--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`.

`cindex` 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 `libunistring`. It is contained in the GnuLib module  
`libunistring`, see `libunistring`.  
<http://www.gnu.org/software/gnulib/MODULES.html#module=libunistring>.

`gl_LIBUNISTRING`

The macro is called `gl_LIBUNISTRING`. It searches for an installed `libunistring`. If found, it sets and AC\_SUBSTS `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 and 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, `LDLFLAGS` 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 <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 `@file{INSTALL}` file, please include a description of the options that you passed to the `@samp{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/}`.

`@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/}`.

`@include wchar_t.texi`

`@node Licenses`  
`@appendix Licenses`  
`@cindex Licenses`

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@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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libxi-1.7.10: src/XIGetDevFocus.c, 1-23
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libxml2-2.9.9: hash.c, 6-15  
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libxml2-2.9.9: list.c, 4-13  
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libxml2-2.9.9: trio.c, 5-14  
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=====  
libxtst-1.2.3: src/XTest.c, 2-32  
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=====
libxvmc-1.0.11: wrapper/XvMCWrapper.c, 1-26
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/*****
 * XvMC Wrapper including the Nonstandard VLD extension.
 *
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```
=====
linux-firmware-20190815: LICENCE.agere
=====
```

```
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.

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Fast discrete Fourier and cosine transforms and inverses  
author: Monty <xiphmont@mit.edu>  
modifications by: Monty  
last modification date: Jul 1 1996

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

```
/* As the original fortran libraries are public domain, the C Fourier
routines in this file are hereby released to the public domain as
well. The C routines here produce output exactly equivalent to the
original fortran routines. Of particular interest are the facts
that (like the original fortran), these routines can work on
arbitrary length vectors that need not be powers of two in
length. */
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```
=====
linux-firmware-20190815: LICENSE.dib0700
=====
```

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

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```

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```

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=====
```

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```
=====
linux-firmware-20190815: LICENCE.go7007
=====
```

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 ioctls are used to negotiate general compression parameters.

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

To change the current parameters, initialize all fields of a struct go7007\_comp\_params and call the GO7007\_IOC\_S\_COMP\_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007\_comp\_params:

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

Choices are:

GO7007\_ASPECT\_RATIO\_1\_1  
GO7007\_ASPECT\_RATIO\_4\_3\_NTSC

```

GO7007_ASPECT_RATIO_4_3_PAL
GO7007_ASPECT_RATIO_16_9_NTSC
GO7007_ASPECT_RATIO_16_9_PAL

```

```

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

```

Flags in struct `go7007_comp_params`:

```

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

```

```

GO7007_COMP_OMIT_SEQ_HEADER  Omit the stream sequence header.

```

```

GO7007IOC_S_MPEG_PARAMS, GO7007IOC_G_MPEG_PARAMS

```

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

To query the current parameters, call the `GO7007IOC_G_MPEG_PARAMS` `ioctl` with a pointer to a struct `go7007_mpeg_params`. If the driver is not set to MPEG format, the `EINVAL` error code will be returned.

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

Fields in struct `go7007_mpeg_params`:

```

enum go7007_mpeg_video_standard
mpeg_video_standard    The MPEG video standard in which to
                       compress the video.

```

Choices are:

```

GO7007_MPEG_VIDEO_MPEG1
GO7007_MPEG_VIDEO_MPEG2
GO7007_MPEG_VIDEO_MPEG4

```

```

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

```

```

__u32          The profile and level indication to be
pali          stored in the sequence header. This

```

is only used as an indicator to the decoder, and does not affect the MPEG features used in the video stream. Not valid for MPEG1.

Choices for MPEG2 are:

GO7007\_MPEG2\_PROFILE\_MAIN\_MAIN

Choices for MPEG4 are:

GO7007\_MPEG4\_PROFILE\_S\_L0  
 GO7007\_MPEG4\_PROFILE\_S\_L1  
 GO7007\_MPEG4\_PROFILE\_S\_L2  
 GO7007\_MPEG4\_PROFILE\_S\_L3  
 GO7007\_MPEG4\_PROFILE\_ARTS\_L1  
 GO7007\_MPEG4\_PROFILE\_ARTS\_L2  
 GO7007\_MPEG4\_PROFILE\_ARTS\_L3  
 GO7007\_MPEG4\_PROFILE\_ARTS\_L4  
 GO7007\_MPEG4\_PROFILE\_AS\_L0  
 GO7007\_MPEG4\_PROFILE\_AS\_L1  
 GO7007\_MPEG4\_PROFILE\_AS\_L2  
 GO7007\_MPEG4\_PROFILE\_AS\_L3  
 GO7007\_MPEG4\_PROFILE\_AS\_L4  
 GO7007\_MPEG4\_PROFILE\_AS\_L5

Flags in struct go7007\_mpeg\_params:

GO7007\_MPEG\_FORCE\_DVD\_MODE Force all compression parameters and bitrate control settings to comply with DVD MPEG2 stream requirements. This overrides most compression and bitrate settings!

GO7007\_MPEG\_OMIT\_GOP\_HEADER Omit the GOP header.

GO7007\_MPEG\_REPEAT\_SEQHEADER Repeat the MPEG sequence header at the start of each GOP.

GO7007IOC\_S\_BITRATE, GO7007IOC\_G\_BITRATE

These ioctls are used to set and query the target bitrate value for the compressed video stream. The bitrate may be selected by storing the target bits per second in an int and calling GO7007IOC\_S\_BITRATE with a pointer to the int. The bitrate may be queried by calling GO7007IOC\_G\_BITRATE with a pointer to an int where the current bitrate will be stored.

Note that this is the primary means of controlling the video quality for all compression modes, including V4L2\_PIX\_FMT\_MJPEG. The VIDIOC\_S\_JPEGCOMP ioctl is not supported.

---

Installing the WIS PCI Voyager Driver

---

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

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

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

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

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

Check to make sure the CONFIG\_VIDEO\_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

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

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

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

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

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

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

video devices (xawtv and gorecord, for example).

-----  
 RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER  
 -----

Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE\_UDEV=n". To force the use of udev, run "make install USE\_UDEV=y".
- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.
- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.
- On devices with an SAA7115, including the 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-20190815: LICENSE.sdma_firmware
=====
```

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```
=====
linux-firmware-20190815: LICENCE.siano
=====
```

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```
=====
linux-firmware-20190815: LICENCE.tda7706-firmware.txt
=====
```

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```
=====
linux-firmware-20190815: LICENCE.ti-connectivity
=====
```

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=====  
 linux-firmware-20190815: LICENCE.ti-keystone  
 =====

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```
=====
linux-firmware-20190815: LICENCE.ueagle-atm4-firmware
=====
```

This license applies to eagle4 firmware & DSPcode  
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=====
linux-firmware-20190815: LICENCE.via_vt6656
=====
```

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=====
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```
=====
linux-firmware-20190815: LICENCE.wl1251
=====
```

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=====

```
linux-firmware-20190815: 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.

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```

```
=====
```

```
linux-firmware-20190815: 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-20190815: LICENCE.xc5000c
=====
```

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

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

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```

```
=====
linux-firmware-20190815: 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
```

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.  
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-----  
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/dsl\_dsp.fw  
File: yamaha/dsle\_ctrl.fw

Licence: Unknown

Found also-firmware package in hex form, with the following comment:  
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-----  
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: qla1280 - Qlogic QLA 1240/1x80/1x160 SCSI support

File: qllogic/1040.bin  
File: qllogic/1280.bin  
File: qllogic/12160.bin

Licence: Redistributable. See LICENCE.qla1280 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:

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-----  
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

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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

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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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```

```
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* This firmware may not be modified and may only be used with the
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*/
```

-----

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:  
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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"  
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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

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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

\* Copyright (C) 1999 BayCom GmbH

\*

\* Redistribution and use in source and binary forms, with or without  
\* modification, are permitted provided that redistributions of source  
\* code retain the above copyright notice and this comment without  
\* modification.

-----  
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/gbrcvucode.sys  
File: slicoss/oasisdbgdownload.sys  
File: slicoss/oasisdownload.sys  
File: slicoss/oasisrcvucode.sys

Licence:

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This firmware may not be modified.

Found in hex form in kernel source.

-----  
Driver: sxg - Alacritech IS-NIC products

File: sxg/saharadownloadB.sys

File: sxg/saharadbdownloadB.sys

Licence:

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This firmware may not be modified.

Found in hex form in kernel source.

-----  
Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/t3b\_psrām-1.1.0.bin

File: cxgb3/t3c\_psrām-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:

```
* Copyright (c) 2007-2009 NetLogic Microsystems, Inc.
*
* 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: 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-1.24.3.0.bin
Link: cxgb4/t4fw.bin -> t4fw-1.24.3.0.bin
File: cxgb4/t5fw-1.14.4.0.bin
File: cxgb4/t5fw-1.15.37.0.bin
File: cxgb4/t5fw-1.24.3.0.bin
Link: cxgb4/t5fw.bin -> t5fw-1.24.3.0.bin
File: cxgb4/t6fw-1.24.3.0.bin
Link: cxgb4/t6fw.bin -> t6fw-1.24.3.0.bin
File: cxgb4/aq1202_fw.cld
File: cxgb4/bcm8483.bin
```

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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DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES  
ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM.

-----  
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: mw18k - Marvell Libertas softmac-type 802.11b/g/n cards

File: mw18k/fmimage\_8687.fw  
File: mw18k/helper\_8687.fw  
File: mw18k/fmimage\_8366.fw  
File: mw18k/fmimage\_8366\_ap-1.fw  
File: mw18k/fmimage\_8366\_ap-2.fw  
File: mw18k/fmimage\_8366\_ap-3.fw  
Version: 5.2.8.16  
File: mw18k/helper\_8366.fw

File: mw18k/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.Marvell for details. Originates from  
<http://git.marvell.com/?p=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-7260-7.ucode  
Version: 22.1.7.0

File: iwlwifi-7260-8.ucode  
Version: 22.24.8.0

File: iwlwifi-7260-9.ucode  
Version: 25.228.9.0



File: iwlwifi-7260-10.ucode  
Version: 23.15.10.0

File: iwlwifi-7260-12.ucode  
Version: 25.17.12.0

File: iwlwifi-7260-13.ucode  
Version: 25.30.13.0

File: iwlwifi-7260-16.ucode  
Version: 16.242414.0

File: iwlwifi-7260-17.ucode  
Version: 17.bfb58538.0

File: iwlwifi-3160-7.ucode  
Version: 22.1.7.0

File: iwlwifi-3160-8.ucode  
Version: 22.24.8.0

File: iwlwifi-3160-9.ucode  
Version: 25.228.9.0

File: iwlwifi-3160-10.ucode  
Version: 23.15.10.0

File: iwlwifi-3160-12.ucode  
Version: 25.17.12.0

File: iwlwifi-3160-13.ucode  
Version: 25.30.13.0

File: iwlwifi-3160-16.ucode  
Version: 16.242414.0

File: iwlwifi-3160-17.ucode  
Version: 17.bfb58538.0

File: iwlwifi-7265-8.ucode  
Version: 22.24.8.0

File: iwlwifi-7265-9.ucode  
Version: 25.228.9.0

File: iwlwifi-7265-10.ucode  
Version: 23.15.10.0

File: iwlwifi-7265-12.ucode

Version: 25.17.12.0

File: iwlwifi-7265-13.ucode  
Version: 25.30.13.0

File: iwlwifi-7265-16.ucode  
Version: 16.242414.0

File: iwlwifi-7265-17.ucode  
Version: 17.bfb58538.0

File: iwlwifi-7265D-10.ucode  
Version: 23.15.10.0

File: iwlwifi-7265D-12.ucode  
Version: 25.17.12.0

File: iwlwifi-7265D-13.ucode  
Version: 25.30.13.0

File: iwlwifi-7265D-16.ucode  
Version: 16.242414.0

File: iwlwifi-7265D-17.ucode  
Version: 17.352738.0

File: iwlwifi-7265D-21.ucode  
Version: 21.302800.0

File: iwlwifi-7265D-22.ucode  
Version: 22.391740.0

File: iwlwifi-7265D-27.ucode  
Version: 27.541033.0

File: iwlwifi-7265D-29.ucode  
Version: 29.3e3b4de5.0

File: iwlwifi-3168-21.ucode  
Version: 21.302800.0

File: iwlwifi-3168-22.ucode  
Version: 22.391740.0

File: iwlwifi-3168-27.ucode  
Version: 27.541033.0

File: iwlwifi-3168-29.ucode  
Version: 29.3e3b4de5.0

File: iwlwifi-8000C-13.ucode  
Version: 25.30.13.0

File: iwlwifi-8000C-16.ucode  
Version: 16.242414.0

File: iwlwifi-8000C-21.ucode  
Version: 21.302800.0

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: 36.8fd77bb3.0

File: iwlwifi-8265-21.ucode  
Version: 21.302800.0

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: 36.8fd77bb3.0

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.a41adfe7.0

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: 38.755cfd8.0

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.a41adfe7.0

File: iwlwifi-cc-a0-46.ucode  
Version: 46.3cfab8da.0

File: iwlwifi-cc-a0-48.ucode  
Version: 48.13675109.0

File: iwlwifi-Qu-b0-hr-b0-48.ucode  
Version: 48.13675109.0

File: iwlwifi-Qu-b0-jf-b0-48.ucode  
Version: 48.13675109.0

File: iwlwifi-Qu-c0-hr-b0-48.ucode  
Version: 48.13675109.0

File: iwlwifi-Qu-c0-jf-b0-48.ucode  
Version: 48.13675109.0

File: iwlwifi-QuZ-a0-hr-b0-48.ucode  
Version: 48.13675109.0

File: iwlwifi-QuZ-a0-jf-b0-48.ucode

Version: 48.13675109.0

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

Licence: Redistributable.

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-----  
Driver: tehuti - Tehuti Networks 10G Ethernet

File: tehuti/bdx.bin

Licence:

Copyright (C) 2007 Tehuti Networks Ltd.

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Found in hex form in kernel source.

Driver: typhoon - 3cr990 series Typhoon

File: 3com/typhoon.bin

Licence:

```
/*
 * Copyright 1999-2004 3Com Corporation. All Rights Reserved.
 *
 * Redistribution and use in source and binary forms of the 3c990img.h
 * microcode software are permitted provided that the following conditions
 * are met:
 * 1. Redistribution of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
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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  
Copyright (C) 1998, 1999, 2000 David A. Hinds

-----  
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/Xilinx70D.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: qllogicpti - PTI Qlogic, ISP Driver

File: qllogic/isp1000.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

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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:

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-----  
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

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: 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

Licence:

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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  
File: radeon/TAHITI\_mc2.bin

File: radeon/TAHITI\_me.bin  
File: radeon/TAHITI\_pfp.bin  
File: radeon/TAHITI\_rlc.bin  
File: radeon/TAHITI\_uvd.bin  
File: radeon/TAHITI\_smc.bin  
File: radeon/TAHITI\_vce.bin  
File: radeon/VERDE\_ce.bin  
File: radeon/VERDE\_mc.bin  
File: radeon/VERDE\_mc2.bin  
File: radeon/VERDE\_me.bin  
File: radeon/VERDE\_pfp.bin  
File: radeon/VERDE\_rlc.bin  
File: radeon/VERDE\_smc.bin  
File: radeon/OLAND\_ce.bin  
File: radeon/OLAND\_mc.bin  
File: radeon/OLAND\_mc2.bin  
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File: radeon/OLAND\_pfp.bin  
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File: radeon/OLAND\_smc.bin  
File: radeon/HAINAN\_ce.bin  
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File: radeon/BONAIRE\_me.bin  
File: radeon/BONAIRE\_mec.bin  
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File: radeon/BONAIRE\_rlc.bin  
File: radeon/BONAIRE\_sdma.bin  
File: radeon/BONAIRE\_uvd.bin  
File: radeon/BONAIRE\_smc.bin  
File: radeon/BONAIRE\_vce.bin  
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File: radeon/KAVERI\_rlc.bin  
File: radeon/KAVERI\_sdma.bin

File: radeon/HAWAII\_ce.bin  
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File: radeon/HAWAII\_smc.bin  
File: radeon/MULLINS\_ce.bin  
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File: radeon/MULLINS\_rlc.bin  
File: radeon/MULLINS\_sdma.bin  
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File: radeon/pitcairn\_k\_smc.bin  
File: radeon/pitcairn\_mc.bin  
File: radeon/pitcairn\_me.bin  
File: radeon/pitcairn\_pfp.bin  
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File: radeon/pitcairn\_smc.bin  
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File: radeon/hainan\_mc.bin  
File: radeon/hainan\_me.bin  
File: radeon/hainan\_pfp.bin  
File: radeon/hainan\_rlc.bin  
File: radeon/hainan\_smc.bin

File: radeon/bonaire\_ce.bin  
File: radeon/bonaire\_k\_smc.bin  
File: radeon/bonaire\_mc.bin  
File: radeon/bonaire\_me.bin  
File: radeon/bonaire\_mec.bin  
File: radeon/bonaire\_pfp.bin  
File: radeon/bonaire\_rlc.bin  
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File: radeon/bonaire\_sdma1.bin  
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File: radeon/bonaire\_vce.bin  
File: radeon/kabini\_ce.bin  
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File: radeon/kabini\_mec.bin  
File: radeon/kabini\_pfp.bin  
File: radeon/kabini\_rlc.bin  
File: radeon/kabini\_sdma.bin  
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File: radeon/kabini\_uvd.bin  
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File: radeon/kaveri\_ce.bin  
File: radeon/kaveri\_me.bin  
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File: radeon/hawaii\_ce.bin  
File: radeon/hawaii\_k\_smc.bin  
File: radeon/hawaii\_mc.bin  
File: radeon/hawaii\_me.bin  
File: radeon/hawaii\_mec.bin  
File: radeon/hawaii\_pfp.bin  
File: radeon/hawaii\_rlc.bin  
File: radeon/hawaii\_sdma.bin  
File: radeon/hawaii\_sdma1.bin  
File: radeon/hawaii\_smc.bin  
File: radeon/hawaii\_uvd.bin  
File: radeon/hawaii\_vce.bin  
File: radeon/mullins\_ce.bin  
File: radeon/mullins\_me.bin  
File: radeon/mullins\_mec.bin  
File: radeon/mullins\_pfp.bin  
File: radeon/mullins\_rlc.bin  
File: radeon/mullins\_sdma.bin  
File: radeon/mullins\_sdma1.bin

File: radeon/mullins\_uvd.bin  
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

File: amdgpu/tahiti\_ce.bin  
File: amdgpu/tahiti\_k\_smc.bin  
File: amdgpu/tahiti\_mc.bin  
File: amdgpu/tahiti\_me.bin  
File: amdgpu/tahiti\_pfp.bin  
File: amdgpu/tahiti\_rlc.bin  
File: amdgpu/tahiti\_smc.bin  
File: amdgpu/pitcairn\_ce.bin  
File: amdgpu/pitcairn\_k\_smc.bin  
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File: amdgpu/pitcairn\_me.bin  
File: amdgpu/pitcairn\_pfp.bin  
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File: amdgpu/verde\_ce.bin  
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File: amdgpu/bonaire\_mc.bin  
File: amdgpu/bonaire\_me.bin  
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File: amdgpu/hawaii\_sdma1.bin  
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File: amdgpu/kaveri\_pfp.bin  
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File: amdgpu/kaveri\_uvd.bin  
File: amdgpu/kaveri\_vce.bin



File: amdgpu/topaz\_ce.bin  
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File: amdgpu/topaz\_mc.bin  
File: amdgpu/topaz\_me.bin  
File: amdgpu/topaz\_mec2.bin  
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File: amdgpu/topaz\_sdma.bin  
File: amdgpu/topaz\_smc.bin  
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File: amdgpu/stoney\_mec.bin  
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File: amdgpu/polaris10\_k\_mc.bin  
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File: amdgpu/polaris10\_me\_2.bin  
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File: amdgpu/polaris10\_mec2\_2.bin  
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File: amdgpu/polaris10\_mec\_2.bin  
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File: amdgpu/polaris12\_ce.bin  
File: amdgpu/polaris12\_ce\_2.bin  
File: amdgpu/polaris12\_mc.bin  
File: amdgpu/polaris12\_k\_mc.bin

File: amdgpu/polaris12\_me.bin  
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File: amdgpu/vega10\_ce.bin  
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File: amdgpu/vega12\_sdma1.bin  
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File: amdgpu/vega20\_sos.bin  
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File: amdgpu/vega20\_vce.bin  
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File: amdgpu/raven\_ce.bin  
File: amdgpu/raven\_gpu\_info.bin  
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File: amdgpu/raven\_mec.bin  
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File: amdgpu/picasso\_mec.bin  
File: amdgpu/picasso\_mec2.bin  
File: amdgpu/picasso\_pfp.bin  
File: amdgpu/picasso\_rlc.bin  
File: amdgpu/picasso\_rlc\_am4.bin  
File: amdgpu/picasso\_sdma.bin  
File: amdgpu/picasso\_vcn.bin  
File: amdgpu/raven2\_asd.bin  
File: amdgpu/raven2\_ce.bin  
File: amdgpu/raven2\_gpu\_info.bin  
File: amdgpu/raven2\_me.bin  
File: amdgpu/raven2\_mec.bin  
File: amdgpu/raven2\_mec2.bin  
File: amdgpu/raven2\_pfp.bin  
File: amdgpu/raven2\_rlc.bin  
File: amdgpu/raven2\_sdma.bin  
File: amdgpu/raven2\_vcn.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: qllogic/sd7220.fw

Licence:

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\*

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```

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* SOFTWARE.

```

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

```

## Licence:

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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: brcsmac - 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/brcmfmac4339-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/brcmfmac43455-sdio.bin  
File: brcm/brcmfmac4350c2-pcie.bin  
File: brcm/brcmfmac4350-pcie.bin  
File: brcm/brcmfmac4356-sdio.bin



File: brcm/brcmfmac43569.bin  
File: brcm/brcmfmac43570-pcie.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/brcmfmac43340-sdio.bin  
File: brcm/brcmfmac43362-sdio.bin  
File: brcm/brcmfmac43430-sdio.bin  
File: brcm/brcmfmac4354-sdio.bin  
File: brcm/brcmfmac4356-pcie.bin  
File: brcm/brcmfmac4373-sdio.bin  
File: brcm/brcmfmac4373.bin

Licence: Redistributable. See LICENCE.cypress for details.

File: "brcm/brcmfmac4330-sdio.Prowise-PT301.txt"  
File: "brcm/brcmfmac43340-sdio.meegopad-t08.txt"  
File: "brcm/brcmfmac43362-sdio.cubietech,cubietruck.txt"  
File: "brcm/brcmfmac43362-sdio.lemaker,bananapro.txt"  
File: "brcm/brcmfmac43430a0-sdio.jumper-ezpad-mini3.txt"  
File: "brcm/brcmfmac43430a0-sdio.ONDA-V80 PLUS.txt"  
File: "brcm/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"  
File: "brcm/brcmfmac43455-sdio.raspberrypi,3-model-b-plus.txt"  
File: "brcm/brcmfmac4356-pcie.gpd-win-pocket.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.

Copyright © 2010 STMicroelectronics

-----  
Driver: wl1251 - 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.

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-----  
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

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  
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

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).  
File: rtlwifi/rtl8192eefw.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\_BTCEX20140507-4E40.

File: rtlwifi/rtl8723bs\_bt.bin  
File: rtlwifi/rtl8723bs\_nic.bin  
File: rtlwifi/rtl8723bs\_ap\_wowlan.bin  
File: rtlwifi/rtl8723bs\_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\_BTCEX20150119-5844  
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/rtl8107e-1.fw

Version: 0.0.2

File: rtl\_nic/rtl8107e-2.fw

Version: 0.0.2

Licence:

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\* data in hexadecimal or equivalent format, provided this copyright  
\* notice is accompanying it.

-----  
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 LICENCE.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  
Licence: ath10k/QCA988X/hw2.0/notice\_ath10k\_firmware-4.txt  
File: ath10k/QCA988X/hw2.0/firmware-5.bin  
Version: 10.2.4-1.0-00045  
Licence: 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  
Licence: 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  
Licence: ath10k/QCA6174/hw3.0/notice\_ath10k\_firmware-4.txt  
File: ath10k/QCA6174/hw3.0/firmware-6.bin  
Version: WLAN.RM.4.4.1-00140-QCARMSWPZ-1  
Licence: ath10k/QCA6174/hw3.0/notice\_ath10k\_firmware-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  
Licence: ath10k/QCA9377/hw1.0/notice\_ath10k\_firmware-5.txt  
File: ath10k/QCA99X0/hw2.0/board.bin  
File: ath10k/QCA99X0/hw2.0/firmware-5.bin  
Version: 10.4.1.00030-1  
Licence: 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  
Licence: 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: 10.2.4-1.0-00045  
Licence: 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: 10.4-3.9.0.2-00040  
Licence: 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: 10.4-3.9.0.2-00046  
Licence: 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  
Licence: ath10k/QCA9377/hw1.0/notice\_ath10k\_firmware-6.txt

Licence: Redistributable. See LICENSE.QualcommAtheros\_ath10k for details

-----

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

License: Redistributable. See LICENSE.atheros\_firmware for details

-----

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

License: Redistributable. See LICENSE.atheros\_firmware for details

-----

Driver: drxk - Micronas DRX-K demodulator driver

File: dvb-usb-terratec-h5-drxk.fw

Licence: Redistributable.

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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

Licence: Redistributable. See LICENCE.ene\_firmware for details.

-----  
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\_52\_00005  
File: intel/ibt-11-5.ddc  
Version: LnP/SfP\_REL0522  
File: intel/ibt-11-5.sfi  
Version: BT\_LightningPeak\_REL0487  
File: intel/ibt-12-16.ddc  
Version: BT\_WindStormPeak\_REL0306  
File: intel/ibt-12-16.sfi  
Version: BT\_WindStormPeak\_REL0306  
File: intel/ibt-17-16-1.sfi  
Version: BT\_JeffersonPeak\_B0\_B0\_REL0472  
File: intel/ibt-17-16-1.ddc  
Version: BT\_JeffersonPeak\_B0\_B0\_REL0472  
File: intel/ibt-17-2.sfi  
Version: BT\_JeffersonPeak\_B0\_B0\_REL0472  
File: intel/ibt-17-2.ddc  
Version: BT\_JeffersonPeak\_B0\_B0\_REL0472  
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\_REL0472  
File: intel/ibt-18-16-1.ddc  
Version: BT\_ThunderPeak\_B0\_B0\_REL0472  
File: intel/ibt-18-2.sfi  
Version: BT\_ThunderPeak\_B0\_B0\_REL0472  
File: intel/ibt-18-2.ddc  
Version: BT\_ThunderPeak\_B0\_B0\_REL0472  
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\_REL0310  
File:intel/ibt-20-0-3.ddc  
Version: BT\_CyclonePeak\_A0\_REL0310  
File:intel/ibt-20-1-3.sfi  
Version: BT\_CyclonePeak\_A0\_REL0310  
File:intel/ibt-20-1-3.ddc  
Version: BT\_CyclonePeak\_A0\_REL\_0310  
File:intel/ibt-20-1-4.sfi  
Version: BT\_CyclonePeak\_A0\_REL0310  
File:intel/ibt-20-1-4.ddc  
Version: BT\_CyclonePeak\_A0\_REL0310  
File:intel/ibt-19-0-0.sfi  
Version: BT\_Quasar\_REL0310  
File:intel/ibt-19-0-0.ddc  
Version: BT\_Quasar\_REL0310  
File:intel/ibt-19-0-1.sfi  
Version: BT\_Quasar\_REL0310  
File:intel/ibt-19-0-1.ddc  
Version: BT\_Quasar\_REL0310  
File:intel/ibt-19-0-4.sfi  
Version: BT\_HarrisonPeak\_REL0310  
File:intel/ibt-19-0-4.ddc  
Version: BT\_HarrisonPeak\_REL0310  
File:intel/ibt-19-16-4.sfi  
Version: BT\_HarrisonPeak\_REL0310  
File:intel/ibt-19-16-4.ddc  
Version: BT\_HarrisonPeak\_REL0310  
File:intel/ibt-19-32-1.sfi  
Version: BT\_HarrisonPeak\_REL0310  
File:intel/ibt-19-32-1.ddc  
Version: BT\_HarrisonPeak\_REL0310  
File:intel/ibt-19-32-0.sfi  
Version: BT\_HarrisonPeak\_REL0310  
File:intel/ibt-19-32-0.ddc  
Version: BT\_HarrisonPeak\_REL0310

Licence: Redistributable. See LICENCE.ibt\_firmware for details

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  
File: rtl\_bt/rtl8761a\_fw.bin  
File: rtl\_bt/rtl8812ae\_fw.bin

File: rtl\_bt/rtl8821a\_fw.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

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](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.

-----  
Driver: btmtk\_usb - Bluetooth USB driver

File: mt7650.bin

Licence: Redistributable. See LICENCE.ralink\_a\_mediatek\_company\_firmware for details

-----  
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\_model0xh.sbin  
Version: 2019-02-13

License: Redistributable. See LICENSE.amd-sev for details

-----  
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: 2018-11-28

License: Redistributable. See LICENSE.amd-ucode for details

Driver: mxullx0 - 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

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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:

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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

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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

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-----  
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

License: 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

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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 -> intel/dsp\_fw\_release\_v3402.bin

License: Redistributable. See LICENCE.adsp\_sst for details

File: intel/dsp\_fw\_bxtn\_v2219.bin  
Version: 9.22.01.2219\_64  
File: intel/dsp\_fw\_bxtn\_v3366.bin  
Version: 9.22.01.3366\_157  
Link: intel/dsp\_fw\_bxtn.bin -> intel/dsp\_fw\_bxtn\_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  
File: intel/dsp\_fw\_cnl.bin  
Link: intel/dsp\_fw\_cnl.bin -> intel/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: v50.10

Licence: Redistributable. See LICENCE.nvidia for details

-----  
Driver: tegra-vic -- NVIDIA Tegra VIC driver

File: nvidia/tegra124/vic03\_ucose.bin  
File: nvidia/tegra210/vic04\_ucose.bin  
File: nvidia/tegra186/vic04\_ucose.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: qca - 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/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/crbtfw21.tlv  
File: qca/crnv21.bin  
File: qca/nvm\_00440302.bin  
File: qca/rampatch\_00440302.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 LICENSE.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

File: i915/skl\_dmc\_ver1.bin

Version: DMC API/ABI ver 1 - release 27 for Skylake

File: i915/bxt\_dmc\_ver1\_07.bin

File: i915/bxt\_dmc\_ver1.bin

Version: DMC API/ABI ver 1 - release 07 for Broxton

File: i915/kbl\_dmc\_ver1\_01.bin

File: i915/kbl\_dmc\_ver1.bin

Version: DMC API/ABI ver 1 - release 01 for Kabylake

File: i915/kbl\_dmc\_ver1\_04.bin

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

File: i915/skl\_guc\_ver6.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\_huc\_ver01\_07\_1398.bin  
Version: HuC API/ABI ver 1 - release 7 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/kbl\_huc\_ver02\_00\_1810.bin  
Version: HuC API/APB ver 2 - 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/kbl\_guc\_ver9\_14.bin  
Version: Guc API/APB ver 9 release 14 for Kabylake

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/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\_huc\_ver03\_01\_2893.bin  
Version: Huc API/APB ver 3 release 1 for Geminilake

File: i915/glk\_dmc\_ver1\_04.bin  
Version: DMC API/ABI ver 1 - release 04 for Geminilake

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\_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\_huc\_ver8\_4\_3238.bin  
Version: Huc API/APB ver 8 release 4 for Icelake  
License: Redistributable. See LICENSE.i915 for details

-----  
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  
File: nvidia/gm204/acr/bl.bin  
File: nvidia/gm204/acr/ucode\_load.bin  
File: nvidia/gm204/acr/ucode\_unload.bin  
File: nvidia/gm204/gr/fecs\_bl.bin  
File: nvidia/gm204/gr/fecs\_data.bin  
File: nvidia/gm204/gr/fecs\_inst.bin

File: nvidia/gm204/gr/fecs\_sig.bin  
File: nvidia/gm204/gr/gpccs\_bl.bin  
File: nvidia/gm204/gr/gpccs\_data.bin  
File: nvidia/gm204/gr/gpccs\_inst.bin  
File: nvidia/gm204/gr/gpccs\_sig.bin  
File: nvidia/gm204/gr/sw\_bundle\_init.bin  
File: nvidia/gm204/gr/sw\_ctx.bin  
File: nvidia/gm204/gr/sw\_method\_init.bin  
File: nvidia/gm204/gr/sw\_nonctx.bin  
File: nvidia/gm206/acr/bl.bin  
File: nvidia/gm206/acr/ucode\_load.bin  
File: nvidia/gm206/acr/ucode\_unload.bin  
File: nvidia/gm206/gr/fecs\_bl.bin  
File: nvidia/gm206/gr/fecs\_data.bin  
File: nvidia/gm206/gr/fecs\_inst.bin  
File: nvidia/gm206/gr/fecs\_sig.bin  
File: nvidia/gm206/gr/gpccs\_bl.bin  
File: nvidia/gm206/gr/gpccs\_data.bin  
File: nvidia/gm206/gr/gpccs\_inst.bin  
File: nvidia/gm206/gr/gpccs\_sig.bin  
File: nvidia/gm206/gr/sw\_bundle\_init.bin  
File: nvidia/gm206/gr/sw\_ctx.bin  
File: nvidia/gm206/gr/sw\_method\_init.bin  
File: nvidia/gm206/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  
File: nvidia/gm20b/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  
File: nvidia/gp100/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  
File: nvidia/gp100/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  
File: nvidia/gp102/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  
File: nvidia/gp102/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  
File: nvidia/gp104/acr/bl.bin  
File: nvidia/gp104/acr/ucode\_load.bin  
File: nvidia/gp104/acr/ucode\_unload.bin  
File: nvidia/gp104/acr/unload\_bl.bin  
File: nvidia/gp104/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  
File: nvidia/gp104/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  
File: nvidia/gp104/gr/sw\_bundle\_init.bin  
File: nvidia/gp104/gr/sw\_ctx.bin  
File: nvidia/gp104/gr/sw\_method\_init.bin  
File: nvidia/gp104/gr/sw\_nonctx.bin  
File: nvidia/gp104/nvdec/scrubber.bin  
File: nvidia/gp104/sec2/desc.bin  
File: nvidia/gp104/sec2/image.bin  
File: nvidia/gp104/sec2/sig.bin  
File: nvidia/gp104/sec2/desc-1.bin  
File: nvidia/gp104/sec2/image-1.bin  
File: nvidia/gp104/sec2/sig-1.bin

File: nvidia/gp106/acr/bl.bin  
File: nvidia/gp106/acr/ucode\_load.bin  
File: nvidia/gp106/acr/ucode\_unload.bin  
File: nvidia/gp106/acr/unload\_bl.bin  
File: nvidia/gp106/gr/fecs\_bl.bin  
File: nvidia/gp106/gr/fecs\_data.bin  
File: nvidia/gp106/gr/fecs\_inst.bin  
File: nvidia/gp106/gr/fecs\_sig.bin  
File: nvidia/gp106/gr/gpccs\_bl.bin  
File: nvidia/gp106/gr/gpccs\_data.bin  
File: nvidia/gp106/gr/gpccs\_inst.bin  
File: nvidia/gp106/gr/gpccs\_sig.bin  
File: nvidia/gp106/gr/sw\_bundle\_init.bin  
File: nvidia/gp106/gr/sw\_ctx.bin  
File: nvidia/gp106/gr/sw\_method\_init.bin  
File: nvidia/gp106/gr/sw\_nonctx.bin  
File: nvidia/gp106/nvdec/scrubber.bin  
File: nvidia/gp106/sec2/desc.bin  
File: nvidia/gp106/sec2/image.bin  
File: nvidia/gp106/sec2/sig.bin  
File: nvidia/gp106/sec2/desc-1.bin  
File: nvidia/gp106/sec2/image-1.bin  
File: nvidia/gp106/sec2/sig-1.bin  
File: nvidia/gp107/acr/bl.bin  
File: nvidia/gp107/acr/ucode\_load.bin  
File: nvidia/gp107/acr/ucode\_unload.bin  
File: nvidia/gp107/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  
File: nvidia/gp107/gr/sw\_bundle\_init.bin  
File: nvidia/gp107/gr/sw\_ctx.bin  
File: nvidia/gp107/gr/sw\_method\_init.bin  
File: nvidia/gp107/gr/sw\_nonctx.bin  
File: nvidia/gp107/nvdec/scrubber.bin  
File: nvidia/gp107/sec2/desc.bin  
File: nvidia/gp107/sec2/image.bin  
File: nvidia/gp107/sec2/sig.bin  
File: nvidia/gp107/sec2/desc-1.bin  
File: nvidia/gp107/sec2/image-1.bin  
File: nvidia/gp107/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  
File: nvidia/gp108/acr/bl.bin  
File: nvidia/gp108/acr/ucode\_load.bin  
File: nvidia/gp108/acr/ucode\_unload.bin  
File: nvidia/gp108/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  
File: nvidia/gp108/nvdec/scrubber.bin  
File: nvidia/gp108/sec2/desc.bin  
File: nvidia/gp108/sec2/image.bin  
File: nvidia/gp108/sec2/sig.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/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

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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

License: Redistributable. See LICENSE.atmel for details

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Driver: hfi1 - Intel OPA Gen 1 adapter

File: hfi1\_dc8051.fw  
Version: 1.27.0  
File: hfi1\_fabric.fw  
Version: 0x1055  
File: hfi1\_pcie.fw  
Version: 0x4755  
File: hfi1\_sbus.fw  
Version: 0x10130001

Licence: Redistributable. See LICENSE.hfi1\_firmware for details

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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 LICENCE.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 LICENCE.Marvell for details.

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Driver: mtk-vpu - Mediatek VPU video processing unit driver

File: vpu\_d.bin

File: vpu\_p.bin

Licence: Redistributable.

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Driver: btmtk - MediaTek Bluetooth Driver

File: mediatek/mt7622pr2h.bin

Version: 20180621204904

File: mediatek/mt7668pr2h.bin

Version: 20180517181834

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: 20190114

File: mediatek/mt7615\_cr4.bin

Version: 20190114

File: mediatek/mt7615\_rom\_patch.bin

Version: 20190114

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-----  
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\_AMDAM0099-0001\_2x10.nffw -> nic/nic\_AMDAM0099-0001\_2x10.nffw  
 Link: netronome/nic\_AMDAM0081-0001\_4x10.nffw -> nic/nic\_AMDAM0081-0001\_4x10.nffw  
 Link: netronome/nic\_AMDAM0097-0001\_4x10\_1x40.nffw ->  
 nic/nic\_AMDAM0097-0001\_4x10\_1x40.nffw  
 Link: netronome/nic\_AMDAM0099-0001\_1x10\_1x25.nffw ->  
 nic/nic\_AMDAM0099-0001\_1x10\_1x25.nffw  
 Link: netronome/nic\_AMDAM0099-0001\_2x25.nffw -> nic/nic\_AMDAM0099-0001\_2x25.nffw  
 Link: netronome/nic\_AMDAM0096-0001\_2x10.nffw -> nic/nic\_AMDAM0096-0001\_2x10.nffw  
 Link: netronome/nic\_AMDAM0097-0001\_8x10.nffw -> nic/nic\_AMDAM0097-0001\_8x10.nffw  
 Link: netronome/nic\_AMDAM0058-0011\_2x40.nffw -> nic/nic\_AMDAM0058-0011\_2x40.nffw  
 Link: netronome/nic\_AMDAM0058-0012\_2x40.nffw -> nic/nic\_AMDAM0058-0012\_2x40.nffw  
 Link: netronome/nic\_AMDAM0078-0011\_1x100.nffw -> nic/nic\_AMDAM0078-0011\_1x100.nffw  
 File: netronome/nic/nic\_AMDAM0081-0001\_1x40.nffw  
 File: netronome/nic/nic\_AMDAM0097-0001\_2x40.nffw  
 File: netronome/nic/nic\_AMDAM0099-0001\_2x10.nffw  
 File: netronome/nic/nic\_AMDAM0081-0001\_4x10.nffw  
 File: netronome/nic/nic\_AMDAM0097-0001\_4x10\_1x40.nffw  
 File: netronome/nic/nic\_AMDAM0099-0001\_1x10\_1x25.nffw  
 File: netronome/nic/nic\_AMDAM0099-0001\_2x25.nffw  
 File: netronome/nic/nic\_AMDAM0096-0001\_2x10.nffw  
 File: netronome/nic/nic\_AMDAM0097-0001\_8x10.nffw  
 File: netronome/nic/nic\_AMDAM0058-0011\_2x40.nffw  
 File: netronome/nic/nic\_AMDAM0058-0012\_2x40.nffw  
 File: netronome/nic/nic\_AMDAM0078-0011\_1x100.nffw  
 File: netronome/nic-sriov/nic\_AMDAM0081-0001\_1x40.nffw  
 File: netronome/nic-sriov/nic\_AMDAM0097-0001\_2x40.nffw  
 File: netronome/nic-sriov/nic\_AMDAM0099-0001\_2x10.nffw  
 File: netronome/nic-sriov/nic\_AMDAM0081-0001\_4x10.nffw  
 File: netronome/nic-sriov/nic\_AMDAM0097-0001\_4x10\_1x40.nffw  
 File: netronome/nic-sriov/nic\_AMDAM0099-0001\_1x10\_1x25.nffw  
 File: netronome/nic-sriov/nic\_AMDAM0099-0001\_2x25.nffw  
 File: netronome/nic-sriov/nic\_AMDAM0096-0001\_2x10.nffw  
 File: netronome/nic-sriov/nic\_AMDAM0097-0001\_8x10.nffw  
 File: netronome/nic-sriov/nic\_AMDAM0058-0011\_2x40.nffw  
 File: netronome/nic-sriov/nic\_AMDAM0058-0012\_2x40.nffw  
 File: netronome/nic-sriov/nic\_AMDAM0078-0011\_1x100.nffw

Version: v2.1.16.1

File: netronome/flower/nic\_AMDAM0099.nffw  
 File: netronome/flower/nic\_AMDAM0096.nffw  
 File: netronome/flower/nic\_AMDAM0097.nffw  
 File: netronome/flower/nic\_AMDAM0058.nffw  
 Link: netronome/flower/nic\_AMDAM0081.nffw -> netronome/flower/nic\_AMDAM0097.nffw  
 Link: netronome/flower/nic\_AMDAM0081-0001\_1x40.nffw ->  
 netronome/flower/nic\_AMDAM0081.nffw  
 Link: netronome/flower/nic\_AMDAM0097-0001\_2x40.nffw ->  
 netronome/flower/nic\_AMDAM0097.nffw  
 Link: netronome/flower/nic\_AMDAM0099-0001\_2x10.nffw ->  
 netronome/flower/nic\_AMDAM0099.nffw

Link: netronome/flower/nic\_AMDAA0081-0001\_4x10.nffw ->  
netronome/flower/nic\_AMDAA0081.nffw  
Link: netronome/flower/nic\_AMDAA0097-0001\_4x10\_1x40.nffw ->  
netronome/flower/nic\_AMDAA0097.nffw  
Link: netronome/flower/nic\_AMDAA0099-0001\_2x25.nffw ->  
netronome/flower/nic\_AMDAA0099.nffw  
Link: netronome/flower/nic\_AMDAA0096-0001\_2x10.nffw ->  
netronome/flower/nic\_AMDAA0096.nffw  
Link: netronome/flower/nic\_AMDAA0097-0001\_8x10.nffw ->  
netronome/flower/nic\_AMDAA0097.nffw  
Link: netronome/flower/nic\_AMDAA0099-0001\_1x10\_1x25.nffw ->  
netronome/flower/nic\_AMDAA0099.nffw  
Link: netronome/flower/nic\_AMDAA0058-0011\_1x100.nffw ->  
netronome/flower/nic\_AMDAA0058.nffw  
Link: netronome/flower/nic\_AMDAA0058-0011\_2x40.nffw ->  
netronome/flower/nic\_AMDAA0058.nffw  
Link: netronome/flower/nic\_AMDAA0058-0011\_4x10\_1x40.nffw ->  
netronome/flower/nic\_AMDAA0058.nffw  
Link: netronome/flower/nic\_AMDAA0058-0011\_8x10.nffw ->  
netronome/flower/nic\_AMDAA0058.nffw  
Link: netronome/flower/nic\_AMDAA0058-0012\_1x100.nffw ->  
netronome/flower/nic\_AMDAA0058.nffw  
Link: netronome/flower/nic\_AMDAA0058-0012\_2x40.nffw ->  
netronome/flower/nic\_AMDAA0058.nffw  
Link: netronome/flower/nic\_AMDAA0058-0012\_4x10\_1x40.nffw ->  
netronome/flower/nic\_AMDAA0058.nffw  
Link: netronome/flower/nic\_AMDAA0058-0012\_8x10.nffw ->  
netronome/flower/nic\_AMDAA0058.nffw  
Link: netronome/flower/nic\_AMDAA0078-0011\_1x100.nffw ->  
netronome/flower/nic\_AMDAA0058.nffw  
Link: netronome/flower/nic\_AMDAA0078-0011\_2x40.nffw ->  
netronome/flower/nic\_AMDAA0058.nffw  
Link: netronome/flower/nic\_AMDAA0078-0011\_4x10\_1x40.nffw ->  
netronome/flower/nic\_AMDAA0058.nffw  
Link: netronome/flower/nic\_AMDAA0078-0011\_8x10.nffw ->  
netronome/flower/nic\_AMDAA0058.nffw  
Link: netronome/flower/nic\_AMDAA0078-0012\_1x100.nffw ->  
netronome/flower/nic\_AMDAA0058.nffw  
Link: netronome/flower/nic\_AMDAA0078-0012\_2x40.nffw ->  
netronome/flower/nic\_AMDAA0058.nffw  
Link: netronome/flower/nic\_AMDAA0078-0012\_4x10\_1x40.nffw ->  
netronome/flower/nic\_AMDAA0058.nffw  
Link: netronome/flower/nic\_AMDAA0078-0012\_8x10.nffw ->  
netronome/flower/nic\_AMDAA0058.nffw

Version: AOTC-2.10.A.38

File: netronome/bpf/nic\_AMDAA0081-0001\_1x40.nffw  
File: netronome/bpf/nic\_AMDAA0097-0001\_2x40.nffw  
File: netronome/bpf/nic\_AMDAA0099-0001\_2x10.nffw

File: netronome/bpf/nic\_AMDAA0081-0001\_4x10.nffw  
File: netronome/bpf/nic\_AMDAA0097-0001\_4x10\_1x40.nffw  
File: netronome/bpf/nic\_AMDAA0099-0001\_1x10\_1x25.nffw  
File: netronome/bpf/nic\_AMDAA0099-0001\_2x25.nffw  
File: netronome/bpf/nic\_AMDAA0096-0001\_2x10.nffw  
File: netronome/bpf/nic\_AMDAA0097-0001\_8x10.nffw  
File: netronome/bpf/nic\_AMDAA0058-0011\_2x40.nffw  
File: netronome/bpf/nic\_AMDAA0058-0012\_2x40.nffw  
File: netronome/bpf/nic\_AMDAA0078-0011\_1x100.nffw

Version: v2.0.6.124

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-----  
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

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-----  
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/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

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<https://developer.qualcomm.com/hardware/dragonboard-410c/tools>

-----  
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

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-----  
Driver: cdns-mhdp - Cadence MHDP DP bridge

File: cadence/mhdp8546.bin  
Version: 1.2.15

Licence: Redistributable. See LICENCE.cadence for details

-----  
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

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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\_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/gxm\_h264.bin

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=====  
 linux-5.4.199+git: COPYING  
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Documentation/process/license-rules.rst

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```
=====
lsb-release-1.4: README
=====
```

LSB version query program (lsb\_release) by Dominique Massonie  
(mdomi@users.sourceforge.net)

This program forms part of the required functionality of the LSB  
(Linux Standard Base) specification.

The program queries the installed state of the distribution to display certain properties such as the version of the LSB against which the distribution claims compliance as well. It can also attempt to display the name and release of the distribution along with an identifier of who produces the distribution.

```
=====
lsof-4.91: 00README, 645-679
=====
```

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```

#### Bug Reports

```

=====
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=====

```

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```

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```
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```

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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>  
<http://www.oberhumer.com/opensource/lzo/>

```
=====
matchbox-wm-1.2.2: src/wm.h, 1-21
=====
```

```
/*
 * Matchbox Window Manager - A lightweight window manager not for the
 *                               desktop.
 *
 * Authored By Matthew Allum <mallum@o-hand.com>
 *
 */
```

```

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* GNU General Public License for more details.
*
*/

#ifndef _WM_H_

=====
matchbox-wm-1.2.2: src/main.c, 1-21
=====

/*
* Matchbox Window Manager - A lightweight window manager not for the
*                               desktop.
*
* Authored By Matthew Allum <mallum@o-hand.com>
*
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*
*/

#include "structs.h"

=====
matchbox-wm-1.2.2: src/wm.c, 1-21
=====

/*
* Matchbox Window Manager - A lightweight window manager not for the
*                               desktop.
*
*/

```

```

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*
*/

```

```
#include "wm.h"
```

```
=====
mesa-19.1.6: docs/license.html
=====
```

```

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html lang="en">
<head>
  <meta http-equiv="content-type" content="text/html; charset=utf-8">
  <title>License / Copyright Information</title>
  <link rel="stylesheet" type="text/css" href="mesa.css">
</head>
<body>

<div class="header">
  <h1>The Mesa 3D Graphics Library</h1>
</div>

<iframe src="contents.html"></iframe>
<div class="content">

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```

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</p>

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</p>

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</p>

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</p>

<p>

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</p>

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```
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```

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```

```
</pre>
```

```
<h1>Attention, Contributors</h1>
```

```
<p>
```

```
When contributing to the Mesa project you must agree to the licensing terms
of the component to which you're contributing.
```

```
The following section lists the primary components of the Mesa distribution
and their respective licenses.
```

```
</p>
```

```
<h1>Mesa Component Licenses</h1>
```

```
<pre>
```

Component	Location	License
Main Mesa code	src/mesa/	MIT
Device drivers	src/mesa/drivers/*	MIT, generally
Gallium code	src/gallium/	MIT
Ext headers	include/GL/glext.h 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>
```

```
<p>
```

```
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```

```
</p>
```

```
</div>
```

```
</body>
```

```
</html>
```

```
=====  
mozjs-60.5.2: LICENSE  
=====
```

```
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```



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ncurses-6.1+20190803: ncurses/base/version.c, 1-27
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```
=====
netbase-5.6: debian/copyright
=====
```

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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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```
=====
networkmanager-1.18.4: COPYING
=====
```

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=====

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```

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nspr-4.21: configure.in, 3-6
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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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nss-3.45: nss/lib/freebl/mpi/doc/LICENSE
=====
```

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basecvt.pod
gcd.pod
invmod.pod
isprime.pod
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=====
```

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

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python3-3.7.8: 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.

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

1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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shadow-4.6: src/passwd.c, 2-30
=====
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sqlite3-3.29.0: sqlite3.h, 1-11
=====
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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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Boston, MA 02111-1307 USA.
```

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

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

That's all there is to it!

```
=====  
startup-notification-0.12: libsn/sn-util.c, 1-18  
=====
```

```
/* This code derived from GLib, Copyright (C) 1997-2002  
 * by the GLib team.  
 *  
 * This library is free software; you can redistribute it and/or  
 * modify it under the terms of the GNU Lesser General Public  
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 * Free Software Foundation, Inc., 59 Temple Place - Suite 330,  
 * Boston, MA 02111-1307, USA.  
 */
```

```
=====  
startup-notification-0.12: libsn/sn-common.h, 1-23  
=====
```

```
/*  
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 * ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN  
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE  
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```



```

*/

=====
startup-notification-0.12: test/test-boilerplate.h, 1-23
=====

/*
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 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 * SOFTWARE.
*/

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=====

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udisks2-2.8.2: COPYING
=====

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```

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```

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under certain conditions; type `show c' for details.
```

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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Version 2, June 1991

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xcb-util-0.4.0: src/xcb_aux.c, 1-30  
=====
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=====  
xcb-util-0.4.0: src/xcb_event.h, 1-27  
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```
=====
xz-5.2.4: lib/getopt.c, 1-23
=====
```

```
/* Getopt for GNU.
NOTE: getopt is now part of the C library, so if you don't know what
"Keep this file name-space clean" means, talk to drepper@gnu.org
before changing it!
Copyright (C) 1987,88,89,90,91,92,93,94,95,96,98,99,2000,2001,2002,2003,2004,2006
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```

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```
#ifndef _LIBC
```

```
=====
zeromq-4.3.2: COPYING.LESSER
=====
```

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

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

## B NPM package license texts

OSS Inventory for NPM packages

```
===== list of packages =====  
accepts (version 1.3.5)  
after (version 0.8.2)  
angular/animations (version 4.1.3)  
angular/common (version 4.1.3)  
angular/compiler (version 4.1.3)  
angular/core (version 4.1.3)  
angular/forms (version 4.1.3)  
angular/http (version 4.1.3)  
angular/platform-browser-dynamic (version 4.1.3)  
angular/platform-browser (version 4.1.3)  
angular/router (version 4.1.3)  
angular/service-worker (version 1.0.0-beta.16)  
angular-seed-advanced (version 0.0.0)  
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array-flatten (version 1.1.1)  
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balanced-match (version 1.0.0)  
base64-arraybuffer (version 0.1.5)  
base64-js (version 1.2.3)  
base64id (version 1.0.0)  
better-assert (version 1.0.2)  
bindings (version 1.2.1)  
blob (version 0.0.4)  
brace-expansion (version 1.1.11)  
bytes (version 3.0.0)  
callsite (version 1.0.0)  
component-bind (version 1.0.0)  
component-emitter (version 1.2.1)  
component-inherit (version 0.0.3)  
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compression (version 1.7.2)  
concat-map (version 0.0.1)  
content-disposition (version 0.5.2)  
content-type (version 1.0.4)  
cookie-signature (version 1.0.6)  
cookie (version 0.3.1)  
core-js (version 2.5.3)  
debug (version 2.2.0)  
debug (version 2.6.9)  
debug (version 3.1.0)  
depd (version 1.1.2)
```



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ee-first (version 1.1.1)  
encodeurl (version 1.0.2)  
engine.io-client (version 3.1.6)  
engine.io-parser (version 2.1.2)  
engine.io (version 3.1.5)  
es-module-loader (version 1.3.5)  
escape-html (version 1.0.3)  
etag (version 1.7.0)  
express (version 4.14.1)  
finalhandler (version 0.5.1)  
forwarded (version 0.1.2)  
fresh (version 0.3.0)  
has-binary2 (version 1.0.2)  
has-cors (version 1.1.0)  
http-errors (version 1.5.1)  
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inherits (version 2.0.3)  
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isarray (version 2.0.1)  
jshashes (version 1.0.7)  
lodash (version 4.17.5)  
long (version 4.0.0)  
media-typer (version 0.3.0)  
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mime-types (version 2.1.18)  
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qs (version 6.2.0)  
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reflect-metadata (version 0.1.12)  
rxjs (version 5.4.3)  
safe-buffer (version 5.1.1)  
send (version 0.14.2)  
serve-static (version 1.11.2)  
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statuses (version 1.3.1)  
symbol-observable (version 1.2.0)  
systemd (version 0.3.1)  
systemjs (version 0.19.41)  
to-array (version 0.1.4)  
type-is (version 1.6.16)  
types/long (version 3.0.32)  
types/node (version 8.10.0)  
ultron (version 1.1.1)  
unpipe (version 1.0.0)  
utils-merge (version 1.0.0)  
uws (version 9.14.0)  
vary (version 1.1.2)  
when (version 3.7.8)  
ws (version 3.3.3)  
xmlhttprequest-ssl (version 1.5.5)  
yeast (version 0.1.2)  
zmq (version 2.15.3)  
zone.js (version 0.8.20)

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valid for npm package: accepts

package version: 1.3.5

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valid for npm package: after  
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valid for npm package: angular-seed-advanced

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```

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valid for npm package: arraybuffer.slice

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# backo

Simple exponential backoff because the others seem to have weird abstractions.

## Installation

...

\$ npm install backo

...

## Options

- `min` initial timeout in milliseconds [100]

- `max` max timeout [10000]

- `jitter` [0]

- `factor` [2]

## Example

```js

var Backoff = require('backo');

var backoff = new Backoff({ min: 100, max: 20000 });

setTimeout(function(){

something.reconnect();

```

    }, backoff.duration());

    // later when something works
    backoff.reset()
    ...

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-----
valid for npm package: balanced-match
package version: 1.0.0
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```

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valid for npm package: base64-js

package version: 1.2.3

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valid for npm package: better-assert

package version: 1.0.2

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# better-assert

Better c-style assertions using  
[callsite] (<https://github.com/visionmedia/callsite>) for  
self-documenting failure messages.

```
## Installation

$ npm install better-assert

## Example

By default assertions are enabled, however the __NO_ASSERT__ environment
variable

will deactivate them when truthy.

```js
var assert = require('better-assert');

test();

function test() {

var user = { name: 'tobi' };

assert('tobi' == user.name);

assert('number' == typeof user.age);
}

AssertionError: 'number' == typeof user.age

at test (/Users/tj/projects/better-assert/example.js:9:3)
at Object.<anonymous> (/Users/tj/projects/better-assert/example.js:4:1)
at Module._compile (module.js:449:26)
at Object.Module._extensions..js (module.js:467:10)
at Module.load (module.js:356:32)
at Function.Module._load (module.js:312:12)
at Module.runMain (module.js:492:10)
at process.startup.processNextTick.process._tickCallback (node.js:244:9)
...

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```

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valid for npm package: bindings

package version: 1.2.1

License Information:

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node-bindings

=====

### Helper module for loading your native module's .node file

This is a helper module for authors of Node.js native addon modules.

It is basically the "swiss army knife" of `require()`ing your native module's `.node` file.

Throughout the course of Node's native addon history, addons have ended up being compiled in a variety of different places, depending on which build tool and which

version of node was used. To make matters worse, now the `_gyp_` build tool can produce either a `_Release_` or `_Debug_` build, each being built into different locations.

This module checks `_all_` the possible locations that a native addon would be built

at, and returns the first one that loads successfully.

Installation

-----

Install with `npm`:

```
``` bash
$ npm install bindings
```
```

Or add it to the `"dependencies"` section of your `_package.json_` file.

Example

-----

`require()`ing the proper bindings file for the current node version, platform and architecture is as simple as:

```
``` js
var bindings = require('bindings')('binding.node')

// Use your bindings defined in your C files
bindings.your_c_function()
```
```

Nice Error Output

-----

When the `.node` file could not be loaded, `node-bindings` throws an Error with a nice error message telling you exactly what was tried. You can also check the `err.tries` Array property.

```

Error: Could not load the bindings file. Tried:

```
→ /Users/nrajlich/ref/build/binding.node
→ /Users/nrajlich/ref/build/Debug/binding.node
→ /Users/nrajlich/ref/build/Release/binding.node
→ /Users/nrajlich/ref/out/Debug/binding.node
→ /Users/nrajlich/ref/Debug/binding.node
→ /Users/nrajlich/ref/out/Release/binding.node
→ /Users/nrajlich/ref/Release/binding.node
→ /Users/nrajlich/ref/build/default/binding.node
```



```

→ /Users/nrajlich/ref/compiled/0.8.2/darwin/x64/binding.node

at bindings (/Users/nrajlich/ref/node_modules/bindings/bindings.js:84:13)

at Object.<anonymous> (/Users/nrajlich/ref/lib/ref.js:5:47)

at Module._compile (module.js:449:26)

at Object.Module._extensions..js (module.js:467:10)

at Module.load (module.js:356:32)

at Function.Module._load (module.js:312:12)

...

```

```

License
-----

```

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+++++

```

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```

```

valid for npm package: blob
package version: 0.0.4

```

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Blob

====

A module that exports a constructor that uses window.Blob when available, and a BlobBuilder with any vendor prefix in other cases. If neither is available, it exports undefined.

Usage:

```
```javascript
var Blob = require('blob');
var b = new Blob(['hi', 'constructing', 'a', 'blob']);
```
```

## Licence

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License 26:

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valid for npm package: brace-expansion

package version: 1.1.11

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License 27:

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valid for npm package: bytes

package version: 3.0.0

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License 28:

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valid for npm package: callsite

package version: 1.0.0

License Information:

+++++

# callstack

Access to v8's "raw" `CallSite`s.

## Installation

\$ npm install callsite

## Example

```
``js
var stack = require('callsite');

foo();

function foo() {

bar();
}

function bar() {

baz();
}

function baz() {

console.log();

stack().forEach(function(site){

console.log(' \033[36m%s\033[90m in %s:%d\033[0m'

, site.getFunctionName() || 'anonymous'

, site.getFileName()

, site.getLineNumber());

});

console.log();
}
```

## Why?

Because you can do weird, stupid, clever, wacky things such as:

- [better-assert](https://github.com/visionmedia/better-assert)

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+++++
```

```

License 29:
-----
valid for npm package: component-bind
package version: 1.0.0
License Information:
+++++
# bind

Function binding utility.

## Installation

...
$ component install component/bind
...

## API

- [bind(obj, fn)](#bindobj-fn)

- [bind(obj, fn, ...)](#bindobj-fn-)

- [bind(obj, name)](#bindobj-name)
<a name=""></a>

<a name="bindobj-fn"></a>
### bind(obj, fn)
should bind the function to the given object.

```js
var tobi = { name: 'tobi' };

function name() {

return this.name;
}

var fn = bind(tobi, name);
fn().should.equal('tobi');
...

<a name="bindobj-fn-"></a>
### bind(obj, fn, ...)
should curry the remaining arguments.

```js
function add(a, b) {

```

```

return a + b;
}

bind(null, add)(1, 2).should.equal(3);
bind(null, add, 1)(2).should.equal(3);
bind(null, add, 1, 2)().should.equal(3);
...

<a name="bindobj-name"></a>
### bind(obj, name)
should bind the method of the given name.

```js
var tobi = { name: 'tobi' };

tobi.getName = function() {

return this.name;
};

var fn = bind(tobi, 'getName');
fn().should.equal('tobi');
...

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valid for npm package: component-emitter
package version: 1.2.1
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valid for npm package: component-inherit

package version: 0.0.3

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# inherit

Prototype inheritance utility.

## Installation

...

\$ component install component/inherit

...

## Example

```js

```
var inherit = require('inherit');
```

```
function Human() {}
```

```
function Woman() {}
```

```
inherit(Woman, Human);
```

```

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```

-----
valid for npm package: compressible
package version: 2.0.13
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```

```

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```

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```

```

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```
+++++
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valid for npm package: cookie-signature
package version: 1.0.6
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# cookie-signature

Sign and unsign cookies.

## Example

```js
var cookie = require('cookie-signature');

var val = cookie.sign('hello', 'tobiiscool');
val.should.equal('hello.DGDUkGIkCzPz+C0B064FNgHdEjox7ch8tOBGslZ5QI');

var val = cookie.sign('hello', 'tobiiscool');
cookie.unsign(val, 'tobiiscool').should.equal('hello');
cookie.unsign(val, 'luna').should.be.false;
```

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valid for npm package: core-js

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valid for npm package: debug

package version: 2.2.0

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# debug

tiny node.js debugging utility modelled after node core's debugging technique.

## Installation

```bash

\$ npm install debug

```

## Usage

With `debug` you simply invoke the exported function to generate your debug function, passing it a name which will determine if a noop function is returned, or a decorated `console.error`, so all of the `console` format string goodies you're used to work fine. A unique color is selected per-function for visibility.

Example \_app.js\_:

```js

var debug = require('debug')('http')

, http = require('http')

, name = 'My App';

```
// fake app

debug('booting %s', name);

http.createServer(function(req, res){

  debug(req.method + ' ' + req.url);

  res.end('hello\n');
}).listen(3000, function(){

  debug('listening');
});

// fake worker of some kind

require('./worker');
...

Example _worker.js_:

```js
var debug = require('debug')('worker');

setInterval(function(){

  debug('doing some work');
}, 1000);
...

```

The `__DEBUG__` environment variable is then used to enable these based on space or comma-delimited names. Here are some examples:

```
![debug http and
worker] (http://f.cl.ly/items/18471z1H402024072r1J/Screenshot.png)

![debug worker] (http://f.cl.ly/items/1X413v1a3M0d3C2c1E0i/Screenshot.png)

#### Windows note

```

On Windows the environment variable is set using the `set` command.

```
```cmd

set DEBUG=*, -not_this

```

```
...
```

Then, run the program to be debugged as usual.

```
## Millisecond diff
```

When actively developing an application it can be useful to see when the time spent between one `debug()` call and the next. Suppose for example you invoke `debug()` before requesting a resource, and after as well, the `+NNNms` will show you how much time was spent between calls.



When stdout is not a TTY, `Date#toUTCString()` is used, making it more useful for logging the debug information as shown below:



```
## Conventions
```

If you're using this in one or more of your libraries, you should use the name of your library so that developers may toggle debugging as desired without guessing names. If you have more than one debuggers you should prefix them with your library name and use `:` to separate features. For example `"bodyParser"` from `Connect` would then be `"connect:bodyParser"`.

```
## Wildcards
```

The `*` character may be used as a wildcard. Suppose for example your library has debuggers named `"connect:bodyParser"`, `"connect:compress"`, `"connect:session"`, instead of listing all three with ``DEBUG=connect:bodyParser,connect:compress,connect:session``, you may simply do ``DEBUG=connect:*``, or to run everything using this module simply use ``DEBUG=*``.

You can also exclude specific debuggers by prefixing them with a `-` character. For example, ``DEBUG=*,-connect:*`` would include all debuggers except those starting with `"connect:"`.

```
## Browser support
```

Debug works in the browser as well, currently persisted by `localStorage``.

Consider the situation shown below where you have `worker:a` and `worker:b`, and wish to debug both. Somewhere in the code on your page, include:

```
```js
window.myDebug = require("debug");
```
```

(`debug` is a global object in the browser so we give this object a different name.) When your page is open in the browser, type the following in the console:

```
```js
myDebug.enable("worker:*")
```
```

Refresh the page. Debug output will continue to be sent to the console until it is disabled by typing `myDebug.disable()` in the console.

```
```js
a = debug('worker:a');
b = debug('worker:b');

setInterval(function(){

a('doing some work');
}, 1000);

setInterval(function(){

b('doing some work');
}, 1200);
```
```

#### Web Inspector Colors

Colors are also enabled on "Web Inspectors" that understand the `%c` formatting option. These are WebKit web inspectors, Firefox ([since version 31](<https://hacks.mozilla.org/2014/05/editable-box-model-multiple-selection-sublime-text-key>) and the Firebug plugin for Firefox (any version).

Colored output looks something like:





```
### stderr vs stdout
```

You can set an alternative logging method per-namespace by overriding the `log` method on a per-namespace or globally:

```
Example _stdout.js:
```

```
```js
var debug = require('debug');
var error = debug('app:error');

// by default stderr is used
error('goes to stderr!');

var log = debug('app:log');
// set this namespace to log via console.log
log.log = console.log.bind(console); // don't forget to bind to console!
log('goes to stdout');
error('still goes to stderr!');

// set all output to go via console.info
// overrides all per-namespace log settings
debug.log = console.info.bind(console);
error('now goes to stdout via console.info');
log('still goes to stdout, but via console.info now!');
```
```

```
### Save debug output to a file
```

You can save all debug statements to a file by piping them.

```
Example:
```

```
```bash
$ DEBUG_FD=3 node your-app.js 3> whatever.log
```
```

```
## Authors
```

```
- TJ Holowaychuk
```

```
- Nathan Rajlich
```

```
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valid for npm package: debug

package version: 2.6.9

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valid for npm package: depd

package version: 1.1.2

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valid for npm package: engine.io-client

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valid for npm package: forwarded
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package version: 0.1.2
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License 57:

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valid for npm package: has-binary2

package version: 1.0.2

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valid for npm package: has-cors

package version: 1.1.0

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# has-cors

Detects support for Cross-Origin Resource Sharing

## Installation

Install with [component(1)](<http://component.io>):

\$ component install component/has-cors

## API

Exports `true` if the user-agent supports CORS, or `false` otherwise.

```
``` js
var hasCORS = require('has-cors');
console.log(hasCORS);
// true
```
```

## License

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License 59:

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valid for npm package: http-errors

package version: 1.5.1

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License 60:

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valid for npm package: indexof

package version: 0.0.1

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# indexOf

Lame indexOf thing, thanks microsoft

```
## Example
```

```
```js
var index = require('indexof');
index(arr, obj);
```
```

```
## License
```

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MIT
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License 61:
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valid for npm package: inherits
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package version: 2.0.3
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package version: 1.2.5
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valid for npm package: ipaddr.js

package version: 1.4.0

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valid for npm package: isarray

package version: 2.0.1

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# isarray

`Array#isArray` for older browsers.

```
[![build
status](https://secure.travis-ci.org/juliangruber/isarray.svg)](http://travis-ci.org/juliangruber/isarray)
[![downloads](https://img.shields.io/npm/dm/isarray.svg)](https://www.npmjs.org/package/isarray)

[![browser support](https://ci.testling.com/juliangruber/isarray.png)](https://ci.testling.com/juliangruber/isarray)

## Usage

```js
var isArray = require('isarray');

console.log(isArray([])); // => true
console.log(isArray({})); // => false
```

## Installation

With [npm](https://npmjs.org) do

```bash
$ npm install isarray
```

Then bundle for the browser with
[browserify](https://github.com/substack/node-browserify).

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valid for npm package: jshashes

package version: 1.0.7

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```
# object

Object utils.

## API

### .keys(obj)

Return the keys for `obj`.

### .values(obj)

Return the values for `obj`.

### .length(obj)

Return the number of keys for `obj`.

### .isEmpty(obj)

Check if `obj` is empty.

### .merge(a, b)

Merge object `b` into `a`, returns `a`.

Precedence is given to `b`.

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package version: 0.0.5

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License 130:

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valid for npm package: ws

package version: 3.3.3

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License 131:

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valid for npm package: xmlhttprequest-ssl

package version: 1.5.5

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License 132:

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valid for npm package: yeast

package version: 0.1.2

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valid for npm package: zmq

package version: 2.15.3

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License 134:
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valid for npm package: zone.js
package version: 0.8.20
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