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

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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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this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

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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.

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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 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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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

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Any executables containing that work also fall under Section 6,
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a) Accompany the work with the complete corresponding
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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
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that the user who changes the contents of definitions files in the
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b) Use a suitable shared library mechanism for linking with the
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That's all there is to it!

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

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link 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.

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

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

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

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

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

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

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

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(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.

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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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atk-2.32.0: atk/atkutil.c, 1-18
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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

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

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

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

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==========

attr-2.4.47: doc/COPYING

==========

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That's all there is to it!

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

#ifndef fooaddresshfoo
#define fooaddresshfoo

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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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  USA.
***/
```

```
#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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Android adaptation and tweak by Jim Huang <jserv@0xlab.org>.

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Emulation of getentropy(2) as documented at:
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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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memchr - find a character in a memory zone

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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.

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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 disable 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 temorary 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
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Archives of the newlib mailing list are on-line, see
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UTF-8 Library

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Extracted from mac/include/DeckLinkAPI.h:

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configure to activate them. In this case, FFmpeg's license changes to GPL v2+.

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/texi2pod.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_cropdetect.c`
    - `vf_delogo.c`
    - `vf_eq.c`
    - `vf_find_rect.c`
```

```
    - `vf_fspp.c`
    - `vf_geq.c`
    - `vf_histeq.c`
    - `vf_hqdn3d.c`
    - `vf_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`

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There are a handful of files under other licensing terms, namely:

* The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and
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  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
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libavcodec/mips/amrwbdec_mips.c

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libavcodec/mips/celp_filters_mips.c

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various filters for CELP-based codecs optimized for MIPS

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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:  Zoran Lukic (zoranl@mips.com)

Optimized MDCT/IMDCT and FFT transforms

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libavcodec/mips/mpegaudiodsp_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.

Copyright(C) 2000-2001 Peter Gubanov <peter@elecard.net.ru>
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http://www.elecard.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

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libavcodec/fft_table.h
libavcodec/mdct_fixed_32.c
libavcodec/mips/aacdec_mips.c
libavcodec/mips/aacdec_mips.h
libavcodec/mips/aacpsdsp_mips.c
libavcodec/mips/aacsbr_mips.c
libavcodec/mips/aacsbr_mips.h
libavcodec/mips/amrwbdec_mips.h
libavcodec/mips/compute_antialias_fixed.h
libavcodec/mips/compute_antialias_float.h
libavcodec/mips/lsp_mips.h
libavcodec/mips/sbrdsp_mips.c
libavutil/fixed_dsp.c
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libavutil/softfloat_tables.h

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libavformat/oggdec.c
libavformat/oggdec.h
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curl
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Following applies to:
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./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
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./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
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./test/cwiseop.cpp
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./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
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./test/superlu_support.cpp
./test/qtvector.cpp
./test/geo_homogeneous.cpp
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./test/array_reverse.cpp
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./test/array_replicate.cpp
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> <program> Copyright (C) <year> <name of author> This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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Following applies to:
./test/metis_support.cpp
./test/sparselu.cpp
./unsupported/test/mpreal/mpreal.h
./unsupported/Eigen/src/IterativeSolvers/IterationController.h
./unsupported/Eigen/src/IterativeSolvers/ConstrainedConjGrad.h
./unsupported/Eigen/src/Eigenvalues/ArpackSelfAdjointEigenSolver.h
./Eigen/src/OrderingMethods/Amd.h
./Eigen/src/SparseCholesky/SimplicialCholesky_impl.h

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./unsupported/Eigen/src/LevenbergMarquardt/LMcovar.h
./unsupported/Eigen/src/LevenbergMarquardt/LMonestep.h
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freetype2
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- o freetype@nongnu.org

  Discusses general use and applications of FreeType, as well as future and wanted additions to the library and distribution. If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

- o freetype-devel@nongnu.org

  Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc.

Our home page can be found at

http://www.freetype.org

--- end of FTL.TXT ---

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Mesa Component Licenses

Component	Location	Primary Author	License

Main Mesa code	src/mesa/	Brian Paul	Mesa (MIT)
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
Mesa GLU library	src/glu/mesa/	Brian Paul	GNU-LGPL
SGI GLU library	src/glu/sgi/	SGI	SGI Free B
demo programs	progs/demos/	various	see source files
X demos	progs/xdemos/	Brian Paul	see source files
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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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coreutils-8.31: src/ls.c, 1-15
==========

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```
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e2fsprogs-1.45.3: lib/ext2fs/ext2fs.h, 1-9
================================================================================

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 *
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 *
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e2fsprogs-1.45.3: lib/e2p/e2p.h, 1-7
================================================================================

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 *
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e2fsprogs-1.45.3: lib/uuid/uuid.h.in, 1-32
================================================================================

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

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```

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

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 *
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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
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================================================================================
flac-1.3.3: include/FLAC/all.h, 65-70
================================================================================

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 * 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/fcfreetype.c, 1-45
================================================================================

/*
 * fontconfig/src/fcfreetype.c
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*/

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

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

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Version 3, 29 June 2007

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Version 3, 29 June 2007

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gdk-pixbuf-2.38.2: gdk-pixbuf/gdk-pixbuf.h, 1-26
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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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==========

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

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

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

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

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

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

^L
  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.)

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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.

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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.
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  Ty Coon, President of Vice

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

/* gpgme.h - Public interface to GnuPG Made Easy.                   -*- c -*-
 * Copyright (C) 2000 Werner Koch (dd9jn)
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 *
 * 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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   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 ENGINE_H

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```

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

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

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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

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gtk+3-3.24.8: gtk/gtk.h, 1-25
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gtk+3-3.24.8: gdk/gdk.h, 1-25
================================================================================
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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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=========================================================================
keyutils-1.6: LICENCE.GPL
=========================================================================

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```
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    This is free software, and you are welcome to redistribute it
    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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```
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```

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

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

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

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libidn2-2.2.0: lib/idn2.h.in, 1-27
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libjpeg-turbo-2.0.3: cdjpeg.h, 1-13
================================================================================

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 *
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 */

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libjpeg-turbo-2.0.3: jpeglib.h, 1-16
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 *
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```

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libjpeg-turbo-2.0.3: djpeg.c, 1-11
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libmatchbox-1.12: libmb/mbexp.c, 1-20
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#define _GNU_SOURCE

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libmatchbox-1.12: libmb/xsettings-client.c, 1-20
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libogg-1.3.4: include/ogg/ogg.h, 1-11
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libpcre-8.43: LICENCE
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THE BASIC LIBRARY FUNCTIONS
---------------------------

Written by:       Philip Hazel
Email local part: ph10
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Written by: Philip Hazel
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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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@end ignore
@end ifinfo

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

@ifnothtml
@page
@vskip 0pt plus 1filll
@c @insertcopying
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@end ifnothtml
@end titlepage

@c Table of Contents
@contents

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

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* Conventions::                 Conventions used in this manual
```

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

* Index::                       General Index

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

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* Elementary string conversions::
* Elementary string functions::
* Elementary string functions with memory allocation::
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```

```
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* Copying a NUL terminated Unicode string::
* Comparing NUL terminated Unicode strings::
* Duplicating a NUL terminated Unicode string::
* Searching for a character in a NUL terminated Unicode string::
* Searching for a substring::
* Tokenizing::

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uninorm.h

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* Compiler options::
* Include files::
* Autoconf macro::
* Reporting problems::

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* 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 <uniconv.h>
conversion from/to legacy encodings
@item <unistdio.h>
formatted output to strings
@item <uniname.h>
character names
@item <unictype.h>
character classification and properties
@item <uniwidth.h>
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```

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

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

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

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

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

@node Unicode
@section Unicode

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

Unicode also specifies three ways of storing sequences of Unicode
```

```
characters in a computer whose basic unit of data is an 8-bit byte:
@cindex UTF-8
@cindex UTF-16
@cindex UTF-32
@cindex UCS-4
@table @asis
@item UTF-8
Every character is represented as 1 to 4 bytes.
@item UTF-16
Every character is represented as 1 to 2 units of 16 bits.
@item UTF-32, a.k.a@. UCS-4
Every character is represented as 1 unit of 32 bits.
@end table

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

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

References:
@itemize @bullet
@item
The Unicode standard:@texnl{} @url{http://www.unicode.org/}
@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}).
@end itemize

@node Locale encodings
@section Locale encodings

@cindex locale
A locale is a set of cultural conventions.  According to POSIX, for a program,
at any moment, there is one locale being designated as the ``current locale''.
(Actually, POSIX supports also one locale per thread, but this feature is not
yet universally implemented and not widely used.)
@cindex locale categories
The locale is partitioned into several aspects, called the ``categories''
of the locale.  The main various aspects are:
@itemize @bullet
@item
The character encoding and the character properties.  This is the
@code{LC_CTYPE} category.
@item
The sorting rules for text.  This is the @code{LC_COLLATE} category.
@item
The language specific translations of messages.  This is the
@code{LC_MESSAGES} category.
@item
The formatting rules for numbers, such as the decimal separator.  This is
the @code{LC_NUMERIC} category.
@item
```

```
The formatting rules for amounts of money.  This is the @code{LC_MONETARY}
category.
@item
The formatting of date and time.  This is the @code{LC_TIME} category.
@end itemize

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

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

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

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

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

@node In-memory representation
@section Choice of in-memory representation of strings

There are three ways of representing strings in memory of a running
program.
@itemize @bullet
@item
As @samp{char *} strings.  Such strings are represented in locale encoding.
This approach is employed when not much text processing is done by the
program.  When some Unicode aware processing is to be done, a string is
converted to Unicode on the fly and back to locale encoding afterwards.
@item
As UTF-8 or UTF-16 or UTF-32 strings.  This implies that conversion from
locale encoding to Unicode is performed on input, and in the opposite
direction on output.  This approach is employed when the program does
a significant amount of text processing, or when the program has multiple
threads operating on the same data but in different locales.
@item
As @samp{wchar_t *}, a.k.a@. ``wide strings''.  This approach is misguided,
see @ref{The wchar_t mess}.
```

```
@end itemize

Of course, a @samp{char *} string can, in some cases, be encoded in UTF-8.
You will use the data type depending on what you can guarantee about how
it's encoded: If a string is encoded in the locale encoding, or if you
don't know how it's encoded, use @samp{char *}.  If, on the other hand,
you can @emph{guarantee} that it is UTF-8 encoded, then you can use the
UTF-8 string type, @code{uint8_t *}, for it.

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

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

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

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

@cindex char, type
The important fact to remember is:
@cartouche
@emph{A @samp{char} is a byte, not a character.}
@end cartouche

As a consequence:
@itemize @bullet
@item
The @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 gnulib
@url{http://www.gnu.org/software/gnulib/}.
@itemize @bullet
@item
gnulib 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
gnulib 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
gnulib has functions @func{mbschr} and @func{mbsrrchr} that are
like @posixfunc{strchr} and @posixfunc{strrchr}, but work in multibyte locales.
@item
gnulib has a function @func{mbsstr}, like @posixfunc{strstr}, but works
in multibyte locales.
@item
gnulib has functions @func{mbscspn}, @func{mbspbrk}, @func{mbsspn}
```

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

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

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

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

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

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

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

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

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

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

@include unitypes.texi
@include unistr.texi
@include uniconv.texi
@include unistdio.texi
@include uniname.texi
@include unictype.texi
@include uniwidth.texi
```

```
@include unigbrk.texi
@include uniwbrk.texi
@include unilbrk.texi
@include uninorm.texi
@include unicase.texi
@include uniregex.texi

@node Using the library
@chapter Using the library

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

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

@node Installation
@section Installation

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

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

@node Compiler options
@section Compiler options

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

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

Let's further denote as @code{LIBUNISTRING_LIBDIR} the directory where
```

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

@cindex compiler options
So that the compiler finds the include files, you have to pass it the
option @code{-I$@{LIBUNISTRING_INCLUDEDIR@}}.

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

@node Include files
@section Include files

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

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

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

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

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

@node Autoconf macro
@section Autoconf macro

@cindex autoconf macro
GNU Gnulib provides an autoconf macro that tests for the availability
```

```
of @code{libunistring}.  It is contained in the Gnulib module
@samp{libunistring}, see@texnl{}
@url{http://www.gnu.org/software/gnulib/MODULES.html#module=libunistring}.

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

The complexities that @code{gl_LIBUNISTRING} deals with are the following:

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

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

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

@node Reporting problems
@section Reporting problems

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

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

For problems that appear while building and installing @code{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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@*
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@page
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@appendixsec GNU LESSER GENERAL PUBLIC LICENSE
@cindex LGPL, GNU Lesser General Public License
@cindex License, GNU LGPL
@include lgpl.texi
@page
@node GNU FDL
@appendixsec GNU Free Documentation License
@cindex FDL, GNU Free Documentation License
@cindex License, GNU FDL
@include fdl.texi

@node Index
@unnumbered Index

@printindex cp

@bye
```

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

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  test-crypt-md5.c, test-crypt-sha256.c, test-crypt-sha512.c,
  test-des-cases.h, test-des-obsolete{,_r}.c, test-gensalt.c,
  test-crypt-nthash.c (adaption of test-crypt-des.c),
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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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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
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Hope this helps.

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linux-firmware-20190815: LICENCE.cadence
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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

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

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linux-firmware-20190815: LICENCE.go7007
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The README file from the original package from Micronas appears below. Only the part about the firmware redistribution in section 0 is relevant, all other sections are completely obsolete.

WIS GO7007SB Public Linux Driver

*** Please see the file RELEASE-NOTES for important last-minute updates ***

0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream is available through the Video4Linux2 API and the audio stream is available through the ALSA API (or the OSS emulation layer of the ALSA system).

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1. SYSTEM REQUIREMENTS

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

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

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

```
CONFIG_HOTPLUG          - Support for hot-pluggable devices
CONFIG_MODULES          - Enable loadable module support
CONFIG_KMOD             - Automatic kernel module loading
CONFIG_FW_LOADER        - Hotplug firmware loading support
CONFIG_I2C              - I2C support
CONFIG_VIDEO_DEV        - Video For Linux
CONFIG_SOUND            - Sound card support
CONFIG_SND              - Advanced Linux Sound Architecture
CONFIG_USB              - Support for Host-side USB
CONFIG_USB_DEVICEFS     - USB device filesystem
CONFIG_USB_EHCI_HCD     - EHCI HCD (USB 2.0) support
```

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

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

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

2. COMPILING AND INSTALLING THE DRIVER

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

```
$ make
```

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

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

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

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

```
$ make install
```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

4. TESTING THE DRIVER

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

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

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

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

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

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

5. USING THE DRIVER

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

* Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.

* No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.

* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.

* MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.

```
  * Video parameters such as format and input port may not be changed while
    the encoder is active.

  * The audio capture device only functions when the video encoder is
    actively capturing video.  Attempts to read from the audio device when
    the encoder is inactive will result in an I/O error.

  * The native format of the audio device is 48Khz 2-channel 16-bit
    little-endian PCM, delivered through the ALSA system.  No audio
    compression is implemented in the hardware.  ALSA may convert to other
    uncompressed formats on the fly.

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


  GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS

    These ioctls are used to negotiate general compression parameters.

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

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

    Fields in struct go7007_comp_params:

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

        __u32                       The maximum number of sequential
          max_b_frames              bidirectionally-predicted frames.
                                    (B-frames are not yet supported.)

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

                                    Choices are:
                                       GO7007_ASPECT_RATIO_1_1
                                       GO7007_ASPECT_RATIO_4_3_NTSC
```

```
                                        GO7007_ASPECT_RATIO_4_3_PAL
                                        GO7007_ASPECT_RATIO_16_9_NTSC
                                        GO7007_ASPECT_RATIO_16_9_PAL

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

    Flags in struct go7007_comp_params:

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

        GO7007_COMP_OMIT_SEQ_HEADER     Omit the stream sequence header.


GO7007IOC_S_MPEG_PARAMS, GO7007IOC_G_MPEG_PARAMS

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

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

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

    Fields in struct go7007_mpeg_params:

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

                                        Choices are:
                                           GO7007_MPEG_VIDEO_MPEG1
                                           GO7007_MPEG_VIDEO_MPEG2
                                           GO7007_MPEG_VIDEO_MPEG4

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

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

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

                                    Choices for MPEG2 are:
                                       GO7007_MPEG2_PROFILE_MAIN_MAIN

                                    Choices for MPEG4 are:
                                       GO7007_MPEG4_PROFILE_S_L0
                                       GO7007_MPEG4_PROFILE_S_L1
                                       GO7007_MPEG4_PROFILE_S_L2
                                       GO7007_MPEG4_PROFILE_S_L3
                                       GO7007_MPEG4_PROFILE_ARTS_L1
                                       GO7007_MPEG4_PROFILE_ARTS_L2
                                       GO7007_MPEG4_PROFILE_ARTS_L3
                                       GO7007_MPEG4_PROFILE_ARTS_L4
                                       GO7007_MPEG4_PROFILE_AS_L0
                                       GO7007_MPEG4_PROFILE_AS_L1
                                       GO7007_MPEG4_PROFILE_AS_L2
                                       GO7007_MPEG4_PROFILE_AS_L3
                                       GO7007_MPEG4_PROFILE_AS_L4
                                       GO7007_MPEG4_PROFILE_AS_L5

  Flags in struct go7007_mpeg_params:

      GO7007_MPEG_FORCE_DVD_MODE   Force all compression parameters and
                                   bitrate control settings to comply
                                   with DVD MPEG2 stream requirements.
                                   This overrides most compression and
                                   bitrate settings!

      GO7007_MPEG_OMIT_GOP_HEADER  Omit the GOP header.

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


GO7007IOC_S_BITRATE, GO7007IOC_G_BITRATE

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

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

```
-------------------------------------------------------------------------------
                    Installing the WIS PCI Voyager Driver
-------------------------------------------------------------------------------

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

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

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

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

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

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

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

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

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

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

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

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

```
video devices (xawtv and gorecord, for example).


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

Last updated: 5 November 2005

 - Release 0.9.7 includes new support for using udev to run fxload.  The
   install script should automatically detect whether the old hotplug
   scripts or the new udev rules should be used.  To force the use of
   hotplug, run "make install USE_UDEV=n".  To force the use of udev, run
   "make install USE_UDEV=y".

 - Motion detection is supported but undocumented.  Try the `modet` app
   for a demonstration of how to use the facility.

 - Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can
   cause buffer overruns and frame drops, even at low framerates, due to
   inconsistency in the bitrate control mechanism.

 - On devices with an SAA7115, including the 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: LICENCE.via_vt6656
================================================================================

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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 XC500 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
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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.
  Copyright (C) 1995-1999  Madge Networks Ltd.

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

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

--------------------------------------------------------------------------

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

File: korg/k1212.dsp

Licence: Unknown

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

--------------------------------------------------------------------------

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

File: ess/maestro3_assp_kernel.fw
File: ess/maestro3_assp_minisrc.fw

Licence: Unknown

Found in alsa-firmware package in hex form with a comment claiming to
be GPLv2+, but without source -- and with another comment saying "ESS
drops binary dsp code images on our heads, but we don't get to see
specs on the dsp."

--------------------------------------------------------------------------

Driver: snd-ymfpci -- Yamaha YMF724/740/744/754 audio devices

File: yamaha/ds1_ctrl.fw
```

```
File: yamaha/ds1_dsp.fw
File: yamaha/ds1e_ctrl.fw

Licence: Unknown

Found alsa-firmware package in hex form, with the following comment:
   Copyright (c) 1997-1999 Yamaha Corporation. All Rights Reserved.

------------------------------------------------------------------------

Driver: advansys - AdvanSys SCSI

File: advansys/mcode.bin
File: advansys/3550.bin
File: advansys/38C0800.bin
File: advansys/38C1600.bin

Licence: BSD, no source available.

Found in hex form in kernel source.

------------------------------------------------------------------------

Driver: qla1280 - Qlogic QLA 1240/1x80/1x160 SCSI support

File: qlogic/1040.bin
File: qlogic/1280.bin
File: qlogic/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:

 * This firmware is licensed to you strictly for use in conjunction
 * with the use of SMC TokenRing adapters. There is no waranty
 * expressed or implied about its fitness for any purpose.

------------------------------------------------------------------------

Driver: kaweth -- USB KLSI KL5USB101-based Ethernet device

File: kaweth/new_code.bin
```

File: kaweth/new_code_fix.bin
File: kaweth/trigger_code.bin
File: kaweth/trigger_code_fix.bin

Licence: Redistributable. See LICENCE.kaweth for details

Found in hex form in the kernel source.

Driver: dvb-ttusb-budget -- Technotrend/Hauppauge Nova-USB devices

File: ttusb-budget/dspbootcode.bin

Licence: Unknown

Found in hex form in the kernel source.

Driver: keyspan -- USB Keyspan USA-xxx serial device

File: keyspan/mpr.fw
File: keyspan/usa18x.fw
File: keyspan/usa19.fw
File: keyspan/usa19qi.fw
File: keyspan/usa19qw.fw
File: keyspan/usa19w.fw
File: keyspan/usa28.fw
File: keyspan/usa28xa.fw
File: keyspan/usa28xb.fw
File: keyspan/usa28x.fw
File: keyspan/usa49w.fw
File: keyspan/usa49wlc.fw

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information:

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    in text or binary form as required.

    This firmware may not be modified and may only be used with
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    keyspan.c driver which includes this firmware, in whole or in
    part, requires the inclusion of this statement."

----------------------------------------------------------------------

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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 *
 * The firmware contained herein is Copyright (c) 1999-2002 Emagic
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```

```
 * image as part of a Linux or other Open Source operating system kernel
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 * Emagic EMI 2|6 Audio Interface. Distribution and/or Modification of
 * any driver which includes this firmware, in whole or in part,
 * requires the inclusion of this statement.
 */

---------------------------------------------------------------------------

Driver: emi62 -- EMI 6|2m USB Audio interface

File: emi62/bitstream.fw
Version: 1.0.0.191
Info: DATE= 2002oct28

File: emi62/loader.fw
Version: 1.0.2.002
Info: DATE=10.01.2002

File: emi62/midi.fw
Version: 1.04.062
Info: DATE=16.10.2002

File: emi62/spdif.fw
Version: 1.04.062
Info: DATE=16.10.2002

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information: None

---------------------------------------------------------------------------

Driver: ti_usb_3410_5052 -- USB TI 3410/5052 serial device

File: ti_3410.fw
Info: firmware 9/10/04 FW3410_Special_StartWdogOnStartPort

File: ti_5052.fw
Info: firmware 9/18/04

Licence: Allegedly GPLv2+, but no source visible. Marked:
     Copyright (C) 2004 Texas Instruments

Found in hex form in kernel source.

---------------------------------------------------------------------------
```

```
Driver: ti_usb_3410_5052 -- Multi-Tech USB cell modems

File: mts_cdma.fw
File: mts_gsm.fw
File: mts_edge.fw

Licence: "all firmware components are redistributable in binary form"
         per support@multitech.com
     Copyright (C) 2005 Multi-Tech Systems, Inc.

Found in hex form in ftp://ftp.multitech.com/wireless/wireless_linux.zip

------------------------------------------------------------------------

Driver: ti_usb_3410_5052 -- Multi-Tech USB fax modems

File: mts_mt9234mu.fw
File: mts_mt9234zba.fw

Licence: Unknown

------------------------------------------------------------------------

Driver: whiteheat -- USB ConnectTech WhiteHEAT serial device

File: whiteheat.fw
Version: 4.06

File: whiteheat_loader.fw

Licence: Allegedly GPLv2, but no source visible. Marked:
     Copyright (C) 2000-2002  ConnectTech Inc

Debug loader claims the following behaviour:
    Port 1 LED flashes when the vend_ax program is running
    Port 2 LED flashes when any SETUP command arrives
    Port 3 LED flashes when any valid VENDOR request occurs
    Port 4 LED flashes when the EXTERNAL RAM DOWNLOAD request occurs

Converted from Intel HEX files, used in our binary representation of ihex.

------------------------------------------------------------------------

Driver: ip2 -- Computone IntelliPort Plus serial device

File: intelliport2.bin

Licence: Unknown

Found in hex form in kernel source.
```

```
--------------------------------------------------------------------------

Driver: cpia2 -- cameras based on Vision's CPiA2

File: cpia2/stv0672_vp4.bin

Licence: Allegedly GPLv2+, but no source visible. Marked:
    Copyright (C) 2001 STMicroelectronics, Inc.
    Contact:  steve.miller@st.com
    Description: This file contains patch data for the CPiA2 (stv0672) VP4.

Found in hex form in kernel source.

--------------------------------------------------------------------------

Driver: dabusb -- Digital Audio Broadcasting (DAB) Receiver for USB and Linux

File: dabusb/firmware.fw
File: dabusb/bitstream.bin

Licence: Distributable

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--------------------------------------------------------------------------

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

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```
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--------------------------------------------------------------------------------

Driver: sxg - Alacritech IS-NIC products

File: sxg/saharadownloadB.sys
File: sxg/saharadbgdownloadB.sys

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Found in hex form in kernel source.

--------------------------------------------------------------------------------

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

File: cxgb3/t3b_psram-1.1.0.bin
File: cxgb3/t3c_psram-1.1.0.bin
File: cxgb3/t3fw-7.0.0.bin
File: cxgb3/t3fw-7.1.0.bin
File: cxgb3/t3fw-7.4.0.bin
File: cxgb3/t3fw-7.10.0.bin
File: cxgb3/t3fw-7.12.0.bin

Licence: GPLv2 or OpenIB.org BSD license, no source visible

--------------------------------------------------------------------------------

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

File: cxgb3/ael2005_opt_edc.bin
File: cxgb3/ael2005_twx_edc.bin
File: cxgb3/ael2020_twx_edc.bin
```

```
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 *
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Found in hex form in kernel source.

----------------------------------------------------------------------

Driver: cxgb4 - Chelsio Terminator 4/5/6 1/10/25/40/100G Ethernet adapter

File: cxgb4/t4fw-1.14.4.0.bin
File: cxgb4/t4fw-1.15.37.0.bin
File: cxgb4/t4fw-1.24.3.0.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_ucode.bin
File: e100/d101s_ucode.bin
File: e100/d102e_ucode.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

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Driver: starfire - Adaptec Starfire/DuraLAN support

File: adaptec/starfire_rx.bin
File: adaptec/starfire_tx.bin

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--------------------------------------------------------------------------------

Driver: i2400m-usb - Intel 2400 Wireless WiMAX Connection over USB

File: i2400m-fw-usb-1.4.sbcf
File: i2400m-fw-usb-1.5.sbcf
File: i6050-fw-usb-1.5.sbcf

Licence: Redistributable. See LICENCE.i2400m for details
```

```
Also available from http://linuxwimax.org/Download

--------------------------------------------------------------------------

Driver: libertas - Marvell Libertas fullmac-type 802.11b/g cards

File: libertas/cf8381.bin
File: libertas/cf8381_helper.bin
File: libertas/cf8385.bin
File: libertas/cf8385_helper.bin
File: libertas/gspi8682.bin
File: libertas/gspi8682_helper.bin
File: libertas/gspi8686_v9.bin
File: libertas/gspi8686_v9_helper.bin
File: libertas/gspi8688.bin
File: libertas/gspi8688_helper.bin
File: libertas/sd8385.bin
File: libertas/sd8385_helper.bin
File: libertas/sd8682.bin
File: libertas/sd8682_helper.bin
File: libertas/sd8686_v8.bin
File: libertas/sd8686_v8_helper.bin
File: libertas/sd8686_v9.bin
File: libertas/sd8686_v9_helper.bin
File: libertas/usb8388_v5.bin
File: libertas/usb8388_v9.bin
File: libertas/usb8682.bin
File: mrvl/sd8688.bin
Link: libertas/sd8688.bin -> ../mrvl/sd8688.bin
File: mrvl/sd8688_helper.bin
Link: libertas/sd8688_helper.bin -> ../mrvl/sd8688_helper.bin

Licence: Redistributable. See LICENCE.Marvell for details.  Extracted from
Linux driver tarballs downloaded from Marvell's "Extranet" with permission.

--------------------------------------------------------------------------

Driver: libertas - Marvell Libertas 802.11b/g cards, OLPC firmware

File: libertas/lbtf_sdio.bin
Version: 9.0.7.p4

File: lbtf_usb.bin
Version: 5.132.3.p1

File: libertas/usb8388_olpc.bin
Version: 5.110.22.p23

Licence: Redistributable. See LICENCE.OLPC for details.
```

```
Available from http://dev.laptop.org/pub/firmware/libertas/

----------------------------------------------------------------------------

Driver: mwl8k - Marvell Libertas softmac-type 802.11b/g/n cards

File: mwl8k/fmimage_8687.fw
File: mwl8k/helper_8687.fw
File: mwl8k/fmimage_8366.fw
File: mwl8k/fmimage_8366_ap-1.fw
File: mwl8k/fmimage_8366_ap-2.fw
File: mwl8k/fmimage_8366_ap-3.fw
Version: 5.2.8.16
File: mwl8k/helper_8366.fw

File: mwl8k/fmimage_8764_ap-1.fw
Version: 7.4.0.9

Licence: Redistributable. See LICENCE.Marvell for details.  8687 images
downloaded from Marvell's "Extranet" with permission.  8366 images contributed
directly by Marvell.

----------------------------------------------------------------------------

Driver: mwifiex - Marvell Wi-Fi fullmac-type 802.11n/ac cards

File: mrvl/sd8787_uapsta.bin
Version: W14.68.35.p66

File: mrvl/usb8766_uapsta.bin
Version: 14.68.22.p16

File: mrvl/sd8797_uapsta.bin
Version: W14.68.29.p59

File: mrvl/usb8797_uapsta.bin
Version: W14.68.29.p60

File: mrvl/sd8897_uapsta.bin
Version: W15.68.19.17

File: mrvl/usb8897_uapsta.bin
Version: 15.68.4.p103

File: mrvl/pcie8897_uapsta.bin
Version: W15.68.19.p21

File: mrvl/sd8887_uapsta.bin
Version: W15.68.7.p189
```

```
File: mrvl/sd8801_uapsta.bin
Version: W14.68.36.p204

File: mrvl/usb8801_uapsta.bin
Version: W14.68.36.p138

File: mrvl/pcieuart8997_combo_v4.bin
Version: W16.68.1.p179

File: mrvl/pcieusb8997_combo_v4.bin
Version: W16.68.1.p195

File: mrvl/pcie8997_wlan_v4.bin
Version: W16.68.1.p195

File: mrvl/usbusb8997_combo_v4.bin
Version: W16.68.1.p183

File: mrvl/sdsd8997_combo_v4.bin
Version: W16.68.1.p179

File: mrvl/sdsd8977_combo_v2.bin
Version: W16.68.1.p195

Licence: Redistributable. See LICENCE.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: 38.755cfdd8.0

File: iwlwifi-9260-th-b0-jf-b0-41.ucode
Version: 41.fc1a7aea.0

File: iwlwifi-9260-th-b0-jf-b0-43.ucode
Version: 43.95eb4e97.0

File: iwlwifi-9260-th-b0-jf-b0-46.ucode
Version: 46.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

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-----------------------------------------------------------------------

Driver: tehuti - Tehuti Networks 10G Ethernet

File: tehuti/bdx.bin

Licence:

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 accompanying it.

Found in hex form in kernel source.

-----------------------------------------------------------------------
```

```
Driver: typhoon - 3cr990 series Typhoon

File: 3com/typhoon.bin

Licence:
/*
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 * COMBINATION WITH THE 3c990img.h MICROCODE SOFTWARE
 */

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--------------------------------------------------------------------------

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
 * waranty 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

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------------------------------------------------------------------------

Driver: serial_cs - Serial PCMCIA adapter

File: cis/MT5634ZLX.cis
File: cis/RS-COM-2P.cis
File: cis/COMpad2.cis
File: cis/COMpad4.cis
Source: cis/src/MT5634ZLX.cis
Source: cis/src/RS-COM-2P.cis
Source: cis/src/COMpad2.cis
Source: cis/src/COMpad4.cis

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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------------------------------------------------------------------------

Driver: serial_cs - Serial PCMCIA adapter

File: cis/SW_555_SER.cis
File: cis/SW_7xx_SER.cis
File: cis/SW_8xx_SER.cis

Licence: GPLv3. See GPL-3 for details.

Copyright Sierra Wireless
```

```
--------------------------------------------------------------------------------

Driver: smc91c92_cs - SMC 91Cxx PCMCIA

File: ositech/Xilinx7OD.bin

Licence: Allegedly GPL, but no source visible. Marked:
    This file contains the firmware of Seven of Diamonds from OSITECH.
    (Special thanks to Kevin MacPherson of OSITECH)

Found in hex form in kernel source.

--------------------------------------------------------------------------------

Driver: cx23418 - Conexant PCI Broadcast A/V with MPEG encoder

File: v4l-cx23418-apu.fw
File: v4l-cx23418-cpu.fw
File: v4l-cx23418-dig.fw

Licence: Redistributable.

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  files for use with Conexant devices, but not as a part of the Linux
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  to be covered by the terms of the GNU General Public License.
  These firmware files are distributed in the hope that they will be
  useful, but WITHOUT ANY WARRANTY; without even the implied warranty
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Driver: cx23885 - Conexant PCI Express Broadcast A/V decoder

File: v4l-cx23885-avcore-01.fw

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--------------------------------------------------------------------------------

Driver: cx23840 - Conexant sideport Broadcast A/V decoder
```

```
File: v4l-cx25840.fw

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--------------------------------------------------------------------------

Driver: qlogicpti - PTI Qlogic, ISP Driver

File: qlogic/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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  accompanying it.
```

```
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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------------------------------------------------------------------------

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/

-----------------------------------------------------------------------

Driver: dvb-ttpci -- AV7110 cards

File: av7110/bootcode.bin
Source: av7110/Boot.S
Source: av7110/Makefile

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

ARM assembly source code from https://linuxtv.org/downloads/firmware/Boot.S

-----------------------------------------------------------------------

Driver: snd-wavefront - ISA WaveFront sound card

File: yamaha/yss225_registers.bin

Licence: Allegedly GPLv2+, but no source visible.

Found in hex form in kernel source, with the following comment:
   Copyright (c) 1998-2002 by Paul Davis <pbd@op.net>

-----------------------------------------------------------------------

Driver: rt61pci - Ralink RT2561, RT2561S, RT2661 wireless MACs

File: rt2561.bin
File: rt2561s.bin
File: rt2661.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from http://www.ralinktech.com/ralink/Home/Support/Linux.html

-----------------------------------------------------------------------

Driver: rt73usb - Ralink RT2571W, RT2671 wireless MACs

File: rt73.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from http://www.ralinktech.com/ralink/Home/Support/Linux.html

-----------------------------------------------------------------------
```

```
Driver: mt7601u - MediaTek MT7601U Wireless MACs

File: mt7601u.bin
Version: 34

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

Downloaded from http://www.mediatek.com/en/downloads/

-----------------------------------------------------------------------

Driver: rt2800pci - Ralink RT2860, RT2890, RT3090, RT3290, RT5390 wireless MACs

File: rt2860.bin
Version: 40

File: rt3290.bin
Version: 37

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Binary file supplied originally by Shiang Tu <shiang_tu@ralinktech.com>, latest
from http://www.mediatek.com/en/downloads1/downloads/

-----------------------------------------------------------------------

Driver: rt2860sta - Ralink RT3090 wireless MACs

Link: rt3090.bin -> rt2860.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

-----------------------------------------------------------------------

Driver: rt2800usb - Ralink RT2870, RT3070, RT3071, RT3072, RT5370 wireless MACs

File: rt2870.bin
Version: 36

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

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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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```

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

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
File: radeon/OLAND_me.bin
File: radeon/OLAND_pfp.bin
File: radeon/OLAND_rlc.bin
File: radeon/OLAND_smc.bin
File: radeon/HAINAN_ce.bin
File: radeon/HAINAN_mc.bin
File: radeon/HAINAN_mc2.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_mc.bin
File: radeon/BONAIRE_mc2.bin
File: radeon/BONAIRE_me.bin
File: radeon/BONAIRE_mec.bin
File: radeon/BONAIRE_pfp.bin
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
File: radeon/KABINI_ce.bin
File: radeon/KABINI_me.bin
File: radeon/KABINI_mec.bin
File: radeon/KABINI_pfp.bin
File: radeon/KABINI_rlc.bin
File: radeon/KABINI_sdma.bin
File: radeon/KAVERI_ce.bin
File: radeon/KAVERI_me.bin
File: radeon/KAVERI_mec.bin
File: radeon/KAVERI_pfp.bin
File: radeon/KAVERI_rlc.bin
File: radeon/KAVERI_sdma.bin

File: radeon/HAWAII_ce.bin
File: radeon/HAWAII_mc.bin
File: radeon/HAWAII_mc2.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_smc.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/pitcairn_ce.bin
File: radeon/pitcairn_k_smc.bin
File: radeon/pitcairn_mc.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_k_smc.bin
File: radeon/tahiti_mc.bin
File: radeon/tahiti_me.bin
File: radeon/tahiti_pfp.bin
File: radeon/tahiti_rlc.bin
File: radeon/tahiti_smc.bin
File: radeon/verde_ce.bin
File: radeon/verde_k_smc.bin
File: radeon/verde_mc.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_k_smc.bin
File: radeon/oland_mc.bin
File: radeon/oland_me.bin
File: radeon/oland_pfp.bin
File: radeon/oland_rlc.bin
File: radeon/oland_smc.bin
File: radeon/hainan_ce.bin
File: radeon/hainan_k_smc.bin
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
File: radeon/bonaire_sdma.bin
File: radeon/bonaire_sdma1.bin
File: radeon/bonaire_smc.bin
File: radeon/bonaire_uvd.bin
File: radeon/bonaire_vce.bin
File: radeon/kabini_ce.bin
File: radeon/kabini_me.bin
File: radeon/kabini_mec.bin
File: radeon/kabini_pfp.bin
File: radeon/kabini_rlc.bin
File: radeon/kabini_sdma.bin
File: radeon/kabini_sdma1.bin
File: radeon/kabini_uvd.bin
File: radeon/kabini_vce.bin
File: radeon/kaveri_ce.bin
File: radeon/kaveri_me.bin
File: radeon/kaveri_mec.bin
File: radeon/kaveri_mec2.bin
File: radeon/kaveri_pfp.bin
File: radeon/kaveri_rlc.bin
File: radeon/kaveri_sdma.bin
File: radeon/kaveri_sdma1.bin
File: radeon/kaveri_uvd.bin
File: radeon/kaveri_vce.bin
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
File: amdgpu/pitcairn_mc.bin
File: amdgpu/pitcairn_me.bin
File: amdgpu/pitcairn_pfp.bin
File: amdgpu/pitcairn_rlc.bin
File: amdgpu/pitcairn_smc.bin
File: amdgpu/verde_ce.bin
File: amdgpu/verde_k_smc.bin
File: amdgpu/verde_mc.bin
File: amdgpu/verde_me.bin
File: amdgpu/verde_pfp.bin
File: amdgpu/verde_rlc.bin
File: amdgpu/verde_smc.bin
File: amdgpu/hainan_ce.bin
File: amdgpu/hainan_k_smc.bin
File: amdgpu/hainan_mc.bin
File: amdgpu/hainan_me.bin
File: amdgpu/hainan_pfp.bin
File: amdgpu/hainan_rlc.bin
File: amdgpu/hainan_smc.bin
File: amdgpu/oland_ce.bin
File: amdgpu/oland_k_smc.bin
File: amdgpu/oland_mc.bin
File: amdgpu/oland_me.bin
File: amdgpu/oland_pfp.bin
File: amdgpu/oland_rlc.bin
File: amdgpu/oland_smc.bin
File: amdgpu/si58_mc.bin
File: amdgpu/banks_k_2_smc.bin
File: amdgpu/bonaire_ce.bin
File: amdgpu/bonaire_k_smc.bin
```

File: amdgpu/bonaire_mc.bin
File: amdgpu/bonaire_me.bin
File: amdgpu/bonaire_mec.bin
File: amdgpu/bonaire_pfp.bin
File: amdgpu/bonaire_rlc.bin
File: amdgpu/bonaire_sdma.bin
File: amdgpu/bonaire_sdma1.bin
File: amdgpu/bonaire_smc.bin
File: amdgpu/bonaire_uvd.bin
File: amdgpu/bonaire_vce.bin
File: amdgpu/hawaii_ce.bin
File: amdgpu/hawaii_k_smc.bin
File: amdgpu/hawaii_mc.bin
File: amdgpu/hawaii_me.bin
File: amdgpu/hawaii_mec.bin
File: amdgpu/hawaii_pfp.bin
File: amdgpu/hawaii_rlc.bin
File: amdgpu/hawaii_sdma.bin
File: amdgpu/hawaii_sdma1.bin
File: amdgpu/hawaii_smc.bin
File: amdgpu/hawaii_uvd.bin
File: amdgpu/hawaii_vce.bin
File: amdgpu/kabini_ce.bin
File: amdgpu/kabini_me.bin
File: amdgpu/kabini_mec.bin
File: amdgpu/kabini_pfp.bin
File: amdgpu/kabini_rlc.bin
File: amdgpu/kabini_sdma.bin
File: amdgpu/kabini_sdma1.bin
File: amdgpu/kabini_uvd.bin
File: amdgpu/kabini_vce.bin
File: amdgpu/mullins_ce.bin
File: amdgpu/mullins_me.bin
File: amdgpu/mullins_mec.bin
File: amdgpu/mullins_pfp.bin
File: amdgpu/mullins_rlc.bin
File: amdgpu/mullins_sdma.bin
File: amdgpu/mullins_sdma1.bin
File: amdgpu/mullins_uvd.bin
File: amdgpu/mullins_vce.bin
File: amdgpu/kaveri_ce.bin
File: amdgpu/kaveri_me.bin
File: amdgpu/kaveri_mec.bin
File: amdgpu/kaveri_mec2.bin
File: amdgpu/kaveri_pfp.bin
File: amdgpu/kaveri_rlc.bin
File: amdgpu/kaveri_sdma.bin
File: amdgpu/kaveri_sdma1.bin
File: amdgpu/kaveri_uvd.bin
File: amdgpu/kaveri_vce.bin

File: amdgpu/topaz_ce.bin
File: amdgpu/topaz_k_smc.bin
File: amdgpu/topaz_mc.bin
File: amdgpu/topaz_me.bin
File: amdgpu/topaz_mec2.bin
File: amdgpu/topaz_mec.bin
File: amdgpu/topaz_pfp.bin
File: amdgpu/topaz_rlc.bin
File: amdgpu/topaz_sdma1.bin
File: amdgpu/topaz_sdma.bin
File: amdgpu/topaz_smc.bin
File: amdgpu/tonga_ce.bin
File: amdgpu/tonga_k_smc.bin
File: amdgpu/tonga_mc.bin
File: amdgpu/tonga_me.bin
File: amdgpu/tonga_mec2.bin
File: amdgpu/tonga_mec.bin
File: amdgpu/tonga_pfp.bin
File: amdgpu/tonga_rlc.bin
File: amdgpu/tonga_sdma1.bin
File: amdgpu/tonga_sdma.bin
File: amdgpu/tonga_smc.bin
File: amdgpu/tonga_uvd.bin
File: amdgpu/tonga_vce.bin
File: amdgpu/carrizo_ce.bin
File: amdgpu/carrizo_me.bin
File: amdgpu/carrizo_mec2.bin
File: amdgpu/carrizo_mec.bin
File: amdgpu/carrizo_pfp.bin
File: amdgpu/carrizo_rlc.bin
File: amdgpu/carrizo_sdma1.bin
File: amdgpu/carrizo_sdma.bin
File: amdgpu/carrizo_uvd.bin
File: amdgpu/carrizo_vce.bin
File: amdgpu/fiji_ce.bin
File: amdgpu/fiji_mc.bin
File: amdgpu/fiji_me.bin
File: amdgpu/fiji_mec2.bin
File: amdgpu/fiji_mec.bin
File: amdgpu/fiji_pfp.bin
File: amdgpu/fiji_rlc.bin
File: amdgpu/fiji_sdma1.bin
File: amdgpu/fiji_sdma.bin
File: amdgpu/fiji_smc.bin
File: amdgpu/fiji_uvd.bin
File: amdgpu/fiji_vce.bin
File: amdgpu/stoney_ce.bin
File: amdgpu/stoney_me.bin
File: amdgpu/stoney_mec.bin
File: amdgpu/stoney_pfp.bin

File: amdgpu/stoney_rlc.bin
File: amdgpu/stoney_sdma.bin
File: amdgpu/stoney_uvd.bin
File: amdgpu/stoney_vce.bin
File: amdgpu/polaris10_ce.bin
File: amdgpu/polaris10_ce_2.bin
File: amdgpu/polaris10_mc.bin
File: amdgpu/polaris10_k_mc.bin
File: amdgpu/polaris10_me.bin
File: amdgpu/polaris10_me_2.bin
File: amdgpu/polaris10_mec2.bin
File: amdgpu/polaris10_mec2_2.bin
File: amdgpu/polaris10_mec.bin
File: amdgpu/polaris10_mec_2.bin
File: amdgpu/polaris10_pfp.bin
File: amdgpu/polaris10_pfp_2.bin
File: amdgpu/polaris10_rlc.bin
File: amdgpu/polaris10_sdma1.bin
File: amdgpu/polaris10_sdma.bin
File: amdgpu/polaris10_smc.bin
File: amdgpu/polaris10_k_smc.bin
File: amdgpu/polaris10_k2_smc.bin
File: amdgpu/polaris10_smc_sk.bin
File: amdgpu/polaris10_uvd.bin
File: amdgpu/polaris10_vce.bin
File: amdgpu/polaris11_ce.bin
File: amdgpu/polaris11_ce_2.bin
File: amdgpu/polaris11_mc.bin
File: amdgpu/polaris11_k_mc.bin
File: amdgpu/polaris11_me.bin
File: amdgpu/polaris11_me_2.bin
File: amdgpu/polaris11_mec2.bin
File: amdgpu/polaris11_mec2_2.bin
File: amdgpu/polaris11_mec.bin
File: amdgpu/polaris11_mec_2.bin
File: amdgpu/polaris11_pfp.bin
File: amdgpu/polaris11_pfp_2.bin
File: amdgpu/polaris11_rlc.bin
File: amdgpu/polaris11_sdma1.bin
File: amdgpu/polaris11_sdma.bin
File: amdgpu/polaris11_smc.bin
File: amdgpu/polaris11_k_smc.bin
File: amdgpu/polaris11_k2_smc.bin
File: amdgpu/polaris11_smc_sk.bin
File: amdgpu/polaris11_uvd.bin
File: amdgpu/polaris11_vce.bin
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
File: amdgpu/polaris12_me_2.bin
File: amdgpu/polaris12_mec.bin
File: amdgpu/polaris12_mec_2.bin
File: amdgpu/polaris12_mec2.bin
File: amdgpu/polaris12_mec2_2.bin
File: amdgpu/polaris12_pfp.bin
File: amdgpu/polaris12_pfp_2.bin
File: amdgpu/polaris12_rlc.bin
File: amdgpu/polaris12_sdma.bin
File: amdgpu/polaris12_sdma1.bin
File: amdgpu/polaris12_smc.bin
File: amdgpu/polaris12_k_smc.bin
File: amdgpu/polaris12_uvd.bin
File: amdgpu/polaris12_vce.bin
File: amdgpu/vegam_ce.bin
File: amdgpu/vegam_me.bin
File: amdgpu/vegam_mec.bin
File: amdgpu/vegam_mec2.bin
File: amdgpu/vegam_pfp.bin
File: amdgpu/vegam_rlc.bin
File: amdgpu/vegam_sdma.bin
File: amdgpu/vegam_sdma1.bin
File: amdgpu/vegam_smc.bin
File: amdgpu/vegam_uvd.bin
File: amdgpu/vegam_vce.bin
File: amdgpu/vega10_acg_smc.bin
File: amdgpu/vega10_asd.bin
File: amdgpu/vega10_ce.bin
File: amdgpu/vega10_gpu_info.bin
File: amdgpu/vega10_me.bin
File: amdgpu/vega10_mec.bin
File: amdgpu/vega10_mec2.bin
File: amdgpu/vega10_pfp.bin
File: amdgpu/vega10_rlc.bin
File: amdgpu/vega10_sdma.bin
File: amdgpu/vega10_sdma1.bin
File: amdgpu/vega10_smc.bin
File: amdgpu/vega10_sos.bin
File: amdgpu/vega10_uvd.bin
File: amdgpu/vega10_vce.bin
File: amdgpu/vega12_asd.bin
File: amdgpu/vega12_ce.bin
File: amdgpu/vega12_gpu_info.bin
File: amdgpu/vega12_me.bin
File: amdgpu/vega12_mec.bin
File: amdgpu/vega12_mec2.bin
File: amdgpu/vega12_pfp.bin
File: amdgpu/vega12_rlc.bin
File: amdgpu/vega12_sdma.bin

File: amdgpu/vega12_sdma1.bin
File: amdgpu/vega12_smc.bin
File: amdgpu/vega12_sos.bin
File: amdgpu/vega12_uvd.bin
File: amdgpu/vega12_vce.bin
File: amdgpu/vega20_asd.bin
File: amdgpu/vega20_ce.bin
File: amdgpu/vega20_me.bin
File: amdgpu/vega20_mec.bin
File: amdgpu/vega20_mec2.bin
File: amdgpu/vega20_pfp.bin
File: amdgpu/vega20_rlc.bin
File: amdgpu/vega20_sdma.bin
File: amdgpu/vega20_sdma1.bin
File: amdgpu/vega20_smc.bin
File: amdgpu/vega20_sos.bin
File: amdgpu/vega20_uvd.bin
File: amdgpu/vega20_vce.bin
File: amdgpu/raven_asd.bin
File: amdgpu/raven_ce.bin
File: amdgpu/raven_gpu_info.bin
File: amdgpu/raven_me.bin
File: amdgpu/raven_mec.bin
File: amdgpu/raven_mec2.bin
File: amdgpu/raven_pfp.bin
File: amdgpu/raven_rlc.bin
File: amdgpu/raven_sdma.bin
File: amdgpu/raven_vcn.bin
File: amdgpu/raven_dmcu.bin
File: amdgpu/picasso_asd.bin
File: amdgpu/picasso_ce.bin
File: amdgpu/picasso_gpu_info.bin
File: amdgpu/picasso_me.bin
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

```
Licence: Redistributable. See LICENSE.amdgpu for details.

--------------------------------------------------------------------------

Driver: s2255drv

File: f2255usb.bin
Version: 1.2.8

Licence: Redistributable.

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--------------------------------------------------------------------------

Driver: rtl8192e - Realtek 8192 PCI wireless driver

File: RTL8192E/boot.img
File: RTL8192E/data.img
File: RTL8192E/main.img

Licence: Redistributable, provided by Realtek in their driver
         source download.

--------------------------------------------------------------------------

Driver: lgs8gxx - Legend Silicon GB20600 demodulator driver

File: lgs8g75.fw

Licence: Unknown

--------------------------------------------------------------------------

Driver: ib_qib - QLogic Infiniband

File: qlogic/sd7220.fw

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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
```

```
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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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 accompanying it.

--------------------------------------------------------------------------------

Driver: brcmsmac - Broadcom 802.11n softmac wireless LAN driver.

File: brcm/bcm43xx-0.fw
File: brcm/bcm43xx_hdr-0.fw
Version: 610.812

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

--------------------------------------------------------------------------------

Driver: brcmfmac - Broadcom 802.11n fullmac wireless LAN driver.

File: brcm/bcm4329-fullmac-4.bin
File: brcm/brcmfmac43236b.bin
File: brcm/brcmfmac4329-sdio.bin
File: brcm/brcmfmac4330-sdio.bin
File: brcm/brcmfmac4334-sdio.bin
File: brcm/brcmfmac4335-sdio.bin
File: brcm/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.
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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
hava 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 wl18xx chips must be located in
/lib/firmware/ti-connectivity/.

------------------------------------------------------------------------

Driver: TI_ST - Texas Instruments bluetooth driver

File: ti-connectivity/TIInit_6.2.31.bts
Version: 2.44 (TI_P31.123)
File: ti-connectivity/TIInit_6.6.15.bts
Version: 2.14 (TI_P6_15.93)
File: ti-connectivity/TIInit_7.2.31.bts

Licence: Redistributable. See LICENCE.ti-connectivity for details.

    TIInit_7.2.31.bts version 7.2.31

    In order to use that file copy it to /lib/firmware/ti-connectivity.

------------------------------------------------------------------------

Driver: tlg2300 - Telgent 2300 V4L/DVB driver.

File: tlg2300_firmware.bin

Licence: Redistributable.

  Telegent System grants permission to use and redistribute these
  firmware files for use with devices containing the chip tlg2300, but
  not as a part of the Linux kernel or in any other form which would
  require these files themselves to be covered by the terms of the GNU
  General Public License. These firmware files are distributed in the
  hope that they will be useful, but WITHOUT ANY WARRANTY; without even
  the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
  PURPOSE.

------------------------------------------------------------------------

Driver: r8712u - Realtek 802.11n WLAN driver for RTL8712U

File: rtlwifi/rtl8712u.bin
Info: From Vendor's rtl8712_8188_8191_8192SU_usb_linux_v7_0.20100831
      Reverted rtl8188C_8192C_8192D_usb_linux_v3.4.2_3727.20120404

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.
```

```
--------------------------------------------------------------------------

Driver: rtl8192ce - Realtek 802.11n WLAN driver for RTL8192CE

File: rtlwifi/rtl8192cfw.bin
File: rtlwifi/rtl8192cfwU.bin
File: rtlwifi/rtl8192cfwU_B.bin
Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

--------------------------------------------------------------------------

Driver: rtl8192cu - Realtek 802.11n WLAN driver for RTL8192CU

File: rtlwifi/rtl8192cufw.bin
File: rtlwifi/rtl8192cufw_A.bin
File: rtlwifi/rtl8192cufw_B.bin
File: rtlwifi/rtl8192cufw_TMSC.bin

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
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.
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_BTCOEX20140507-4E40.
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_BTCOEX20150119-5844
      Firmware is embedded in the driver as data statements. This info
      has been extracted into a binary file.
File: rtlwifi/rtl8723bu_nic.bin
File: rtlwifi/rtl8723bu_wowlan.bin
File: rtlwifi/rtl8723bu_ap_wowlan.bin

Info: rtl8192eu taken from Realtek driver
      rtl8192EU_linux_v4.3.1.1_11320.20140505
      Firmware is embedded in the driver as data statements. This info
      has been extracted into a binary file.
File: rtlwifi/rtl8192eu_nic.bin
File: rtlwifi/rtl8192eu_wowlan.bin
File: rtlwifi/rtl8192eu_ap_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

--------------------------------------------------------------------------------

Driver: r8169 - RealTek 8169/8168/8101 ethernet driver.

File: rtl_nic/rtl8168d-1.fw
File: rtl_nic/rtl8168d-2.fw
```

```
File: rtl_nic/rtl8105e-1.fw
File: rtl_nic/rtl8168e-1.fw
File: rtl_nic/rtl8168e-2.fw

File: rtl_nic/rtl8168e-3.fw
Version: 0.0.4

File: rtl_nic/rtl8168f-1.fw
Version: 0.0.5

File: rtl_nic/rtl8168f-2.fw
Version: 0.0.4

File: rtl_nic/rtl8411-1.fw
Version: 0.0.3

File: rtl_nic/rtl8411-2.fw
Version: 0.0.1

File: rtl_nic/rtl8402-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106e-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106e-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-1.fw
Version: 0.0.3

File: rtl_nic/rtl8168g-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-3.fw
Version: 0.0.1

File: rtl_nic/rtl8168h-1.fw
Version: 0.0.2

File: rtl_nic/rtl8168h-2.fw
Version: 0.0.2

File: rtl_nic/rtl8107e-1.fw
Version: 0.0.2

File: rtl_nic/rtl8107e-2.fw
Version: 0.0.2

Licence:
```

```
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 *
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------------------------------------------------------------------------------

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
```

```
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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

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Driver: myri10ge - Myri10GE 10GbE NIC driver

File: myri10ge_eth_z8e.dat
File: myri10ge_ethp_z8e.dat
File: myri10ge_rss_eth_z8e.dat
File: myri10ge_rss_ethp_z8e.dat
File: myri10ge_eth_big_z8e.dat
File: myri10ge_ethp_big_z8e.dat
File: myri10ge_rss_eth_big_z8e.dat
File: myri10ge_rss_ethp_big_z8e.dat
Version: 1.4.57

License: Redistributable.  See LICENCE.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 LICENCE.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 LICENCE.atheros_firmware for details

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```
Driver: drxk - Micronas DRX-K demodulator driver

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

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----------------------------------------------------------------------------

Driver: ene-ub6250 -- ENE UB6250 SD card reader driver

File: ene-ub6250/sd_init1.bin
File: ene-ub6250/sd_init2.bin
File: ene-ub6250/sd_rdwr.bin
File: ene-ub6250/ms_init.bin
File: ene-ub6250/msp_rdwr.bin
File: ene-ub6250/ms_rdwr.bin

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
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 -- Comtrol 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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  kernel or in any other form which would require these files themselves
  to be covered by the terms of the GNU General Public License.
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  useful, but WITHOUT ANY WARRANTY; without even the implied warranty
  of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

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: mxu11x0 - MOXA UPort 11x0 USB Serial hub driver

File: moxa/moxa-1110.fw
File: moxa/moxa-1130.fw
File: moxa/moxa-1131.fw
File: moxa/moxa-1150.fw
File: moxa/moxa-1151.fw

License: Redistributable. See LICENCE.moxa for details

----------------------------------------------------------------------------

Driver: mxuport - MOXA UPort USB Serial hub driver

File: moxa/moxa-1250.fw
File: moxa/moxa-1251.fw
File: moxa/moxa-1410.fw
File: moxa/moxa-1450.fw
File: moxa/moxa-1451.fw
File: moxa/moxa-1613.fw
File: moxa/moxa-1618.fw
File: moxa/moxa-1653.fw
File: moxa/moxa-1658.fw

License: Redistributable. See LICENCE.moxa for details

----------------------------------------------------------------------------

Driver: cw1200 - ST-E CW1100/CW1200 WLAN driver

File: wsm_22.bin
Version: WSM395
Licence: Redistributable. See LICENCE.cw1200 for details.

File: sdd_sagrad_1091_1098.bin

License:
  Copyright (c) 2011-2013 Sagrad, Inc.

  This SDD ("Static Dynamic Data") file is licensed strictly for use with
  the Sagrad WiFi modules (such as the SG901-1091/1098) that utilize the
  cw1200 driver. There is no warranty expressed or implied about its
  fitness for any purpose.

  Permission is hereby granted for the distribution of this SDD file as
  part of Linux or other Open Source operating system kernel in text or
  binary form as required.

  (Please note that the actual device firmware is separately licensed)
```

```
--------------------------------------------------------------------------

Driver: BFA/BNA - QLogic BR-series Adapter FC/FCOE drivers

File: cbfw-3.2.1.1.bin
File: ctfw-3.2.1.1.bin
File: ct2fw-3.2.1.1.bin
File: cbfw-3.2.3.0.bin
File: ctfw-3.2.3.0.bin
File: ct2fw-3.2.3.0.bin
File: cbfw-3.2.5.1.bin
File: ctfw-3.2.5.1.bin
File: ct2fw-3.2.5.1.bin

Licence:

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useful, but WITHOUT ANY WARRANTY; without even the implied warranty
of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

--------------------------------------------------------------------------
Driver: qat - Intel(R) QAT crypto accelerator

File: qat_895xcc.bin
File: qat_895xcc_mmp.bin
File: qat_c3xxx.bin
File: qat_c3xxx_mmp.bin
File: qat_c62x.bin
File: qat_c62x_mmp.bin
Link: qat_mmp.bin -> qat_895xcc_mmp.bin

Licence: Redistributable. See LICENCE.qat_firmware for details

--------------------------------------------------------------------------

Driver: rsi -- Redpine Signals Inc 91x driver
```

```
File: rsi_91x.fw

File: rsi/rs9113_wlan_qspi.rps
Version: 1.6.1

File: rsi/rs9113_wlan_bt_dual_mode.rps
Version: 1.6.1

File: rsi/rs9113_ap_bt_dual_mode.rps
Version: 1.6.1

File: rsi/rs9116_wlan.rps
Version: 1.0.5b

File: rsi/rs9116_wlan_bt_classic.rps
Version: 1.0.5b

Licence:
 * Firmware is:
 *    Derived from proprietary unpublished source code,
 *    Copyright (C) 2019 Redpine Signals Inc.
 *
 *    Permission is hereby granted for the distribution of this firmware
 *    as part of Linux or other Open Source operating system kernel
 *    provided this copyright notice is accompanying it.

------------------------------------------------------------------------

Driver: xhci-rcar -- Renesas R-Car Gen2/3 USB 3.0 host controller driver

File: r8a779x_usb3_v1.dlmem
File: r8a779x_usb3_v2.dlmem
File: r8a779x_usb3_v3.dlmem

Licence: Redistributable. See LICENCE.r8a779x_usb3 for details.

------------------------------------------------------------------------

Driver: snd_soc_sst_acpi

File: intel/fw_sst_0f28.bin-48kHz_i2s_master

License: Redistributable. See LICENCE.fw_sst_0f28 for details

------------------------------------------------------------------------

Driver: as102 - Abilis Systems Single DVB-T Receiver

File: as102_data1_st.hex
File: as102_data2_st.hex
```

```
License: Redistributable. See LICENCE.Abilis for details

-----------------------------------------------------------------------

Driver: it9135 -- ITEtech IT913x DVB-T USB driver

File: dvb-usb-it9135-01.fw
File: dvb-usb-it9135-02.fw

Licence: Redistributable. See LICENCE.it913x for details

-----------------------------------------------------------------------

Driver: snd_soc_sst_acpi

File: intel/IntcSST2.bin
Version: 8.4.1.77

License: Redistributable. See LICENCE.IntcSST2 for details

-----------------------------------------------------------------------

Driver: snd_intel_sst_core

File: intel/fw_sst_0f28.bin
File: intel/fw_sst_0f28_ssp0.bin

License: Redistributable. See LICENCE.fw_sst_0f28 for details

-----------------------------------------------------------------------

Driver: snd_intel_sst_core

File: intel/fw_sst_22a8.bin
Version: 01.0B.02.02

License: Redistributable. See LICENCE.fw_sst_0f28 for details

-----------------------------------------------------------------------

Driver: snd-soc-skl

File: intel/dsp_fw_release_v969.bin
Version: 8.20.00.969
File: intel/dsp_fw_release_v3402.bin
Version: 9.21.00.3402_161
Link: intel/dsp_fw_release.bin -> 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: sms1xxx-hcw-55xxx-dvbt-02.fw
File: sms1xxx-hcw-55xxx-isdbt-02.fw
File: sms1xxx-nova-a-dvbt-01.fw
File: sms1xxx-nova-b-dvbt-01.fw
File: sms1xxx-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_ucode.bin
File: nvidia/tegra210/vic04_ucode.bin
File: nvidia/tegra186/vic04_ucode.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 LICENCE.cavium_liquidio for details

--------------------------------------------------------------------------

Driver: nitrox -- Cavium CNN55XX crypto driver
```

```
File: cavium/cnn55xx_ae.fw
Version: v01

File: cavium/cnn55xx_se.fw
Version: v10

Licence: Redistributable. See LICENCE.cavium for details

-----------------------------------------------------------------------

Driver: i915 -- Intel Integrated Graphics driver

File: i915/skl_dmc_ver1_23.bin
File: i915/skl_dmc_ver1_26.bin
File: i915/skl_dmc_ver1_27.bin
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

--------------------------------------------------------------------------

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.

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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.

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.

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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

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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.

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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

Licence: Redistributable. See LICENCE.mediatek for details.

-----------------------------------------------------------------------

Driver: nfp - Netronome Flow Processor

Link: netronome/nic_AMDA0081-0001_1x40.nffw -> nic/nic_AMDA0081-0001_1x40.nffw
Link: netronome/nic_AMDA0097-0001_2x40.nffw -> nic/nic_AMDA0097-0001_2x40.nffw
```

```
Link: netronome/nic_AMDA0099-0001_2x10.nffw -> nic/nic_AMDA0099-0001_2x10.nffw
Link: netronome/nic_AMDA0081-0001_4x10.nffw -> nic/nic_AMDA0081-0001_4x10.nffw
Link: netronome/nic_AMDA0097-0001_4x10_1x40.nffw ->
nic/nic_AMDA0097-0001_4x10_1x40.nffw
Link: netronome/nic_AMDA0099-0001_1x10_1x25.nffw ->
nic/nic_AMDA0099-0001_1x10_1x25.nffw
Link: netronome/nic_AMDA0099-0001_2x25.nffw -> nic/nic_AMDA0099-0001_2x25.nffw
Link: netronome/nic_AMDA0096-0001_2x10.nffw -> nic/nic_AMDA0096-0001_2x10.nffw
Link: netronome/nic_AMDA0097-0001_8x10.nffw -> nic/nic_AMDA0097-0001_8x10.nffw
Link: netronome/nic_AMDA0058-0011_2x40.nffw -> nic/nic_AMDA0058-0011_2x40.nffw
Link: netronome/nic_AMDA0058-0012_2x40.nffw -> nic/nic_AMDA0058-0012_2x40.nffw
Link: netronome/nic_AMDA0078-0011_1x100.nffw -> nic/nic_AMDA0078-0011_1x100.nffw
File: netronome/nic/nic_AMDA0081-0001_1x40.nffw
File: netronome/nic/nic_AMDA0097-0001_2x40.nffw
File: netronome/nic/nic_AMDA0099-0001_2x10.nffw
File: netronome/nic/nic_AMDA0081-0001_4x10.nffw
File: netronome/nic/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/nic/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/nic/nic_AMDA0099-0001_2x25.nffw
File: netronome/nic/nic_AMDA0096-0001_2x10.nffw
File: netronome/nic/nic_AMDA0097-0001_8x10.nffw
File: netronome/nic/nic_AMDA0058-0011_2x40.nffw
File: netronome/nic/nic_AMDA0058-0012_2x40.nffw
File: netronome/nic/nic_AMDA0078-0011_1x100.nffw
File: netronome/nic-sriov/nic_AMDA0081-0001_1x40.nffw
File: netronome/nic-sriov/nic_AMDA0097-0001_2x40.nffw
File: netronome/nic-sriov/nic_AMDA0099-0001_2x10.nffw
File: netronome/nic-sriov/nic_AMDA0081-0001_4x10.nffw
File: netronome/nic-sriov/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/nic-sriov/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/nic-sriov/nic_AMDA0099-0001_2x25.nffw
File: netronome/nic-sriov/nic_AMDA0096-0001_2x10.nffw
File: netronome/nic-sriov/nic_AMDA0097-0001_8x10.nffw
File: netronome/nic-sriov/nic_AMDA0058-0011_2x40.nffw
File: netronome/nic-sriov/nic_AMDA0058-0012_2x40.nffw
File: netronome/nic-sriov/nic_AMDA0078-0011_1x100.nffw

Version: v2.1.16.1

File: netronome/flower/nic_AMDA0099.nffw
File: netronome/flower/nic_AMDA0096.nffw
File: netronome/flower/nic_AMDA0097.nffw
File: netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0081.nffw -> netronome/flower/nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0081-0001_1x40.nffw ->
netronome/flower/nic_AMDA0081.nffw
Link: netronome/flower/nic_AMDA0097-0001_2x40.nffw ->
netronome/flower/nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_2x10.nffw ->
netronome/flower/nic_AMDA0099.nffw
```

```
Link: netronome/flower/nic_AMDA0081-0001_4x10.nffw ->
netronome/flower/nic_AMDA0081.nffw
Link: netronome/flower/nic_AMDA0097-0001_4x10_1x40.nffw ->
netronome/flower/nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_2x25.nffw ->
netronome/flower/nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0096-0001_2x10.nffw ->
netronome/flower/nic_AMDA0096.nffw
Link: netronome/flower/nic_AMDA0097-0001_8x10.nffw ->
netronome/flower/nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_1x10_1x25.nffw ->
netronome/flower/nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0058-0011_1x100.nffw ->
netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_2x40.nffw ->
netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_4x10_1x40.nffw ->
netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_8x10.nffw ->
netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_1x100.nffw ->
netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_2x40.nffw ->
netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_4x10_1x40.nffw ->
netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_8x10.nffw ->
netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_1x100.nffw ->
netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_2x40.nffw ->
netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_4x10_1x40.nffw ->
netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_8x10.nffw ->
netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_1x100.nffw ->
netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_2x40.nffw ->
netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_4x10_1x40.nffw ->
netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_8x10.nffw ->
netronome/flower/nic_AMDA0058.nffw

Version: AOTC-2.10.A.38

File: netronome/bpf/nic_AMDA0081-0001_1x40.nffw
File: netronome/bpf/nic_AMDA0097-0001_2x40.nffw
File: netronome/bpf/nic_AMDA0099-0001_2x10.nffw
```

File: netronome/bpf/nic_AMDA0081-0001_4x10.nffw
File: netronome/bpf/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/bpf/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/bpf/nic_AMDA0099-0001_2x25.nffw
File: netronome/bpf/nic_AMDA0096-0001_2x10.nffw
File: netronome/bpf/nic_AMDA0097-0001_8x10.nffw
File: netronome/bpf/nic_AMDA0058-0011_2x40.nffw
File: netronome/bpf/nic_AMDA0058-0012_2x40.nffw
File: netronome/bpf/nic_AMDA0078-0011_1x100.nffw

Version: v2.0.6.124

Licence: Redistributable. See LICENCE.Netronome for details

Driver: wil6210 - Qualcomm Atheros support for 11ad family of chips

File: wil6210.fw
File: wil6210.brd
Version: 5.2.0.18

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

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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

Licence: Redistributable. See LICENSE.qcom and qcom/NOTICE.txt for details

Binary files supplied originally from
https://developer.qualcomm.com/hardware/dragonboard-410c/tools

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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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Binary files supplied originally from
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

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Driver: fsl-mc bus - NXP Management Complex Bus Driver

File: dpaa2/mc/mc_10.10.0_ls1088a.itb
File: dpaa2/mc/mc_10.10.0_ls2088a.itb
File: dpaa2/mc/mc_10.10.0_lx2160a.itb
File: dpaa2/mc/mc_10.14.3_ls1088a.itb
File: dpaa2/mc/mc_10.14.3_ls2088a.itb
File: dpaa2/mc/mc_10.14.3_lx2160a.itb
File: dpaa2/mc/mc_10.16.2_ls1088a.itb
File: dpaa2/mc/mc_10.16.2_ls2088a.itb
File: dpaa2/mc/mc_10.16.2_lx2160a.itb

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---

Driver: mscc-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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================================================================================
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.

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

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Bug Reports

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

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

#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.
 *
```

```
 *  Authored By Matthew Allum <mallum@o-hand.com>
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 */

#include "wm.h"

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================================================================================

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  <title>License / Copyright Information</title>
  <link rel="stylesheet" type="text/css" href="mesa.css">
</head>
<body>

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</div>

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

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srcdir        = @srcdir@
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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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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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straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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Version 3, 29 June 2007

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

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A "covered work" means either the unmodified Program or a work based on the Program.

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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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.

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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

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

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its purpose remains meaningful.

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

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

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

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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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================================================================================
polkit-0.116: src/polkit/polkit.h, 1-20
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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 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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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

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

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

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

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
```

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

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shadow-4.6: src/passwd.c, 2-30

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================================================================================
sqlite3-3.29.0: sqlite3.h, 1-11
================================================================================

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==========

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```
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startup-notification-0.12: libsn/sn-util.c, 1-18
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startup-notification-0.12: libsn/sn-common.h, 1-23
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startup-notification-0.12: test/test-boilerplate.h, 1-23
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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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```

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```
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  <signature of Ty Coon>, 1 April 1989
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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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==
usbutils-012: lsusb.c, 1-1
==

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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
================================================================================

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==========

zlib-1.2.11: zlib.h, 6-23

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Jean-loup Gailly jloup@gzip.org

Mark Adler 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)
angulartics2 (version 2.5.0)
array-flatten (version 1.1.1)
arraybuffer.slice (version 0.0.7)
async-limiter (version 1.0.0)
backo2 (version 1.0.2)
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base64-js (version 1.2.3)
base64id (version 1.0.0)
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bindings (version 1.2.1)
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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)
compressible (version 2.0.13)
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)
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etag (version 1.7.0)
express (version 4.14.1)
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forwarded (version 0.1.2)
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has-binary2 (version 1.0.2)
has-cors (version 1.1.0)
http-errors (version 1.5.1)
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parseuri (version 0.0.5)
parseurl (version 1.3.2)
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protobufjs/codegen (version 2.0.4)
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protobufjs/path (version 1.1.2)
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protobufjs (version 6.8.6)
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qs (version 6.2.0)
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socket.io (version 2.0.4)
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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: backo2
package version: 1.0.2
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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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License 23:
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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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valid for npm package: bindings
package version: 1.2.1
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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)

...
```


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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']);
```

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package version: 1.1.11
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++
```

```
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# 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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++
```

````
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valid for npm package: component-bind
package version: 1.0.0
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# 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);
```


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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# 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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```

```
--------------------
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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.DGDUkGlIkCzPz+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: 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');
```

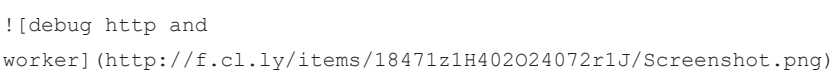
Example _worker.js_:

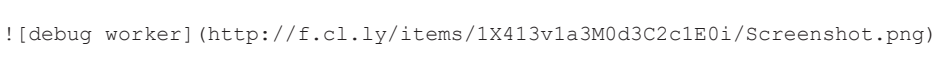
```js
var debug = require('debug')('worker');

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:





Windows note

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

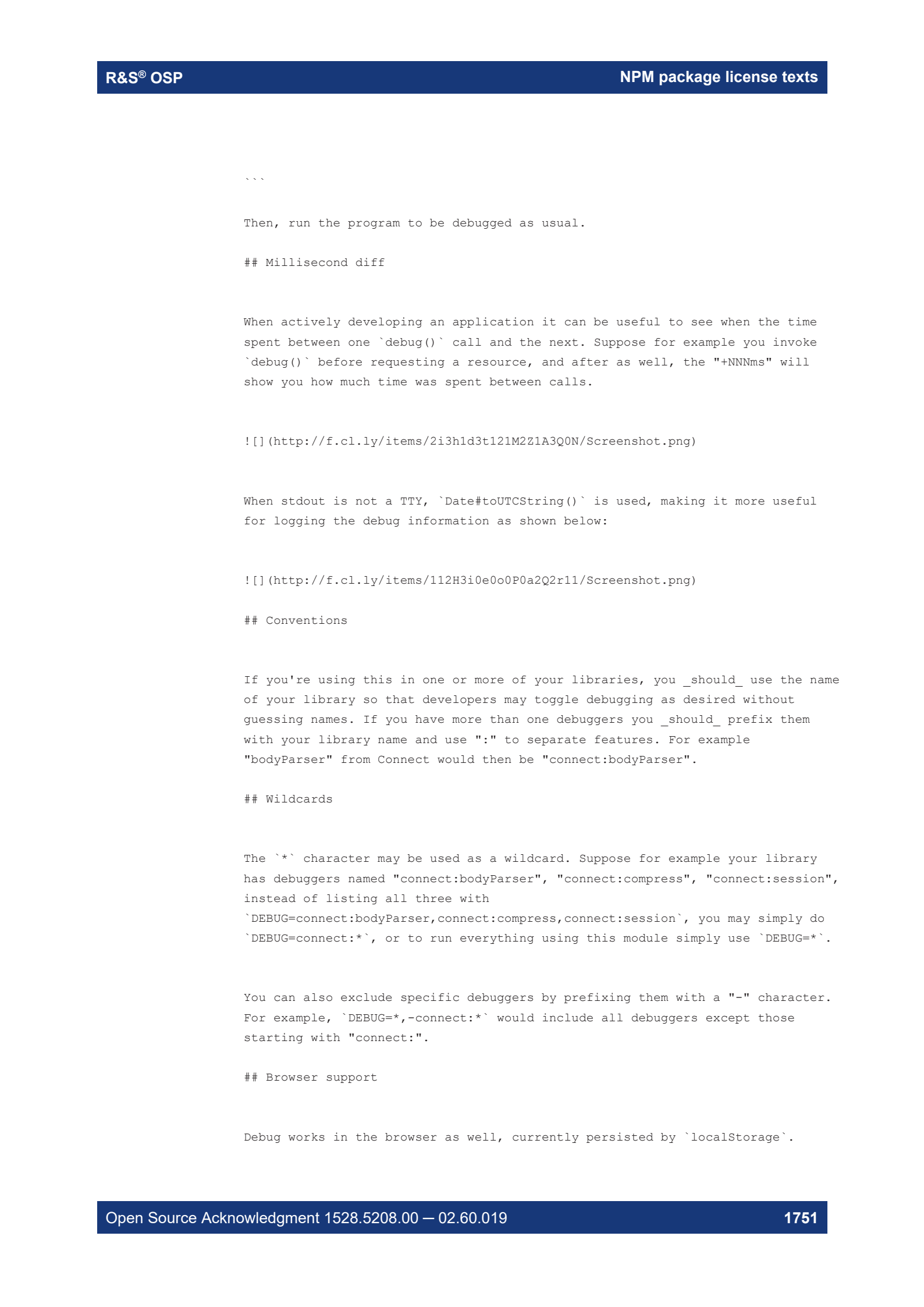
```cmd
set DEBUG=*,-not_this
```

```

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

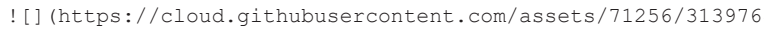
Colors are also enabled on "Web Inspectors" that understand the `%c` formatting

option. These are WebKit web inspectors, Firefox ([since version

31](https://hacks.mozilla.org/2014/05/editable-box-model-multiple-selection-sublime-text-ke

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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# 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
```

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```

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# indexOf


Lame indexOf thing, thanks microsoft
```

````
## Example

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

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isarray

`Array#isArray` for older browsers.

````
[![build
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[![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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```
# 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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valid for npm package: xmlhttprequest-ssl
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valid for npm package: zmq
package version: 2.15.3
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